

**ATTACHMENT A**  
**ANALYTICAL SUMMARY TABLE**

**Ft. McClellan  
Parcel HR-144Q**  
**Range at Choccolocco Corridor Soil Analytical Summary**  
**Project No. 796887**

Sample Location	Sample Name	Sample Number	Date Sampled	Sample Depth	Analytical Suite	Sample Type	Sample Purpose
HR-144Q-GP01	HR-144Q-GP01-SS-QM0001-REG	QM0001	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-144Q-GP01-SS-QM0001-MS-MS	QM0001-MS	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	MS
	HR-144Q-GP01-SS-QM0001-MSD-MSD	QM0001-MSD	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	MSD
	HR-144Q-GP01-DS-QM0002-REG	QM0002	23-Jul-02	2 to 3 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-144Q-GP02	HR-144Q-GP02-SS-QM0003-REG	QM0003	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-144Q-GP02-DS-QM0004-REG	QM0004	23-Jul-02	2 to 2.5 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-144Q-GP03	HR-144Q-GP03-SS-QM0005-REG	QM0005	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-144Q-GP03-DS-QM0006-REG	QM0006	23-Jul-02	1 to 2 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-144Q-GP04	HR-144Q-GP04-SS-QM0007-REG	QM0007	24-Jul-02	0 to 1 ft	CI Herbicides by 8151A CI Pesticides by 8081A Nitroaromatics by 8330 OP Pesticides by 8141A Semivolatiles by 8270C TAL Metals by 6010B/7471A Volatiles by 8260B	SS	REG
	HR-144Q-GP04-DS-QM0008-REG	QM0008	24-Jul-02	1.5 to 2 ft	CI Herbicides by 8151A CI Pesticides by 8081A Nitroaromatics by 8330 OP Pesticides by 8141A Semivolatiles by 8270C TAL Metals by 6010B/7471A Volatiles by 8260B	DS	REG
	HR-144Q-GP04-DS-QM0009-FD	QM0009	24-Jul-02	1.5 to 2 ft	CI Herbicides by 8151A CI Pesticides by 8081A Nitroaromatics by 8330 OP Pesticides by 8141A Semivolatiles by 8270C TAL Metals by 6010B/7471A Volatiles by 8260B	DS	FD
HR-144Q-MW01	HR-144Q-MW01-SS-QM0010-REG	QM0010	23-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-144Q-MW01-DS-QM0011-REG	QM0011	23-Jul-02	2 to 4 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-144Q-DEP01	HR-144Q-DEP01-DEP-QM0012-REG	QM0012	5-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	REG
HR-144Q-DEP02	HR-144Q-DEP02-DEP-QM0013-REG	QM0013	4-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	REG
	HR-144Q-DEP02-DEP-QM0014-FD	QM0014	4-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	FD
HR-144Q-DEP03	HR-144Q-DEP03-DEP-QM0015-REG	QM0015	4-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	REG
HR-144Q-DEP04	HR-144Q-DEP04-DEP-QM0016-REG	QM0016	4-Sep-02	0 to 1 ft	CI Herbicides by 8151A CI Pesticides by 8081A Nitroaromatics by 8330 OP Pesticides by 8141A Semivolatiles by 8270C TAL Metals by 6010B/7471A Volatiles by 8260B	DEP	REG
	HR-144Q-DEP04-DEP-QM0017-FD	QM0017	4-Sep-02	0 to 1 ft	CI Herbicides by 8151A CI Pesticides by 8081A Nitroaromatics by 8330 OP Pesticides by 8141A Semivolatiles by 8270C TAL Metals by 6010B/7471A Volatiles by 8260B	DEP	FD

**ATTACHMENT B**  
**DATA VALIDATION SUMMARY REPORT**

**Data Validation Summary Report  
For the Site Investigation Performed at  
Range, Choccolocco Corridor, Parcel 144Q-X  
Fort McClellan, Calhoun County, Alabama**

---

### **1.0 Introduction**

Level III data validation was performed on 100 percent of the environmental samples collected for HR-144Q. The analytical data consisted of delivery groups (SDGs) 10144Q-01, 10144Q-02 and 10144Q -03, which were analyzed by EMAX Laboratories. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
Volatile Organics by GC/MS SW846 8260B
Semivolatile Organics by GC/MS SW846 8270C
Metals by SW846 6010B and 7471A
Nitroaromatic and Nitramine Explosives by SW846 8330
Organochlorinated Pesticides by SW846 8081A
Organophosphorus Pesticides by SW846 8141
Herbicides by SW846 8151A

### **2.0 Procedures**

The sample data were validated following the logic identified in the 1994 *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* and the 1999 *EPA Contract Laboratory Program National Functional Guidelines for Organic Review* for all areas except blanks. *EPA Region III Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses* (April 1993) and *Region III National Functional Guidelines for Organic Data Review* (June 1992) were applied to the areas associated with blank contamination. Specific quality control (QC) criteria as identified in the quality assurance plan (QAP), analytical methods, and laboratory standard operating procedures (SOP) were applied to all sample results. As a result of the use of Update III SW846 test methods for the analytical data and the application of the Contract Laboratory Program (CLP) guidelines during the validation process, there were instances where specific QC requirements for all target compounds were not defined. This primarily occurred in the organic, gas chromatography (GC) and GC/mass spectrometry (MS) calibration areas and is due to the fact that the analytical methods are performance-based and allow the use of average calibration responses in lieu of individual responses, which are defined by CLP protocol. In light of applying CLP guidelines to SW846 methods and evaluating the usability of the data during the validation process, specific QC criteria were determined to address all target compounds and are identified in this report for each parameter, as well as in the validation checklists, which function as worksheets. All

completed validation checklists are on file in the Knoxville office. For those analytical methods not addressed by the CLP and Region III guidelines, the validation was based on the method requirements (i.e., SW846, Code of Federal Regulations, SOPs) and technical judgement, following the logic of the CLP validation guidelines.

### ***3.0 Summary of Data Validation Findings***

The overall quality of the data was determined to be acceptable with minimal qualifications. The only rejected data ("R" qualified) was due to "poor performing" volatile compounds (ketones, some halogenated hydrocarbons, etc.), which experienced poor calibration responses in the associated calibration data and organophosphorous pesticide compound (Naled), which experienced extremely low LCS recoveries. The "R" qualifier was also assigned to the samples with more than one set of results to indicate that a given result should not be used to characterize a particular constituent or an analysis for a given sample.

Individual validation reports have been prepared for each parameter, and the overall results of the validation findings are summarized in this report. The validation qualifier data entry verification report (Attachment 1) is also provided. This is a complete listing of all of the analytical results and the validation qualifiers assigned for the site investigation at HR-144Q. It also identifies the "use" column, which indicates which result to use in the event of a reanalysis. A listing of the validation qualifiers and the reason codes, along with their definitions, is also found in Attachment 1. The following section highlights the key findings of the data validation for each analysis.

### ***4.0 Analysis-Specific Data Validation Summaries***

#### ***4.1 Volatile Organics by GC/MS SW846 8260B***

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

##### **Holding Times**

Technical holding time criteria were met for all samples.

##### **Initial and Continuing Calibration**

The initial calibration (ICAL) and continuing calibrations (CCAL) associated with the project samples met QC criteria, with the following exception(s):

- The following exhibited individual ICAL/CCAL relative response factor (RRF) <0.1:

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0007, QM0008, QM0009	Acetone	J

#### Blanks

The 5X/10X rule for contaminants found in the associated equipment rinses, trip, and method blanks was applied to all sample results. All were found to be acceptable.

#### Surrogate Recoveries

All surrogate recoveries were within QC limits

#### Matrix Spike / Matrix Spike Duplicate

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis was performed for the project samples, and all QC criteria were met.

#### Laboratory Control Sample

Laboratory Control Sample (LCS) analysis was performed for the project samples, and all QC criteria were met.

#### Field Duplicates

Original and field duplicate results were evaluated, and RPD QC criteria (35% Water/ 50% Soil) were met for the project samples.

#### Internal Standards

All internal standards met QC criteria with the following exceptions:

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0007	All compounds associated with IS2 (Chlorobenzene-d5) and IS3 (1,2-Dichlorobenzene-d4)	UJ

#### Quantitation

Results quantitated between the method detection limit (MDL) and the reporting limit (RL), which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

### **4.2 Semivolatile Organics by GC/MS SW846 8270C**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

### Holding Times

Technical holding time criteria were met for all samples.

### Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria with the following exception(s):

- The following exhibited individual CCAL percent difference (%D) >20:

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-02	QM0016, QM0017	2-Nitroaniline	UJ

### Blanks

The 5X/10X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

### Surrogate Recoveries

All surrogate recoveries were within QC criteria.

### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

### Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

### Field Duplicates

Original and field duplicate results were evaluated, and all QC criteria were met.

### Internal Standards

All internal standards met QC criteria.

### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J," were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

## **4.3 Metals by SW846 6010B/7471A**

Overall, the data are of good quality and are usable as reported by the laboratory with the

exceptions noted below. Data were reviewed for the following:

Holding Times

Technical holding time criteria were met for all samples.

Initial and Continuing Calibrations

All initial and continuing calibrations associated with the project samples met QC criteria.

Blanks

The 5X rule for contaminants found in the associated equipment rinse, calibration, and method blanks was applied to all sample results. All were acceptable with the following exception(s):

SDG	Samples Affected	Compound(s)	Blank Contaminant	Validation Qualifier
10144Q-01	QM0001, QM0002, QM0003, QM0004, QM0008, QM0011	Selenium	Calibration	B
10144Q-02	QM0016	Potassium	Calibration	B

Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	All Samples	Selenium, Antimony, Cobalt, Lead, Manganese, Thallium	B/J/UJ

Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

Interference Check Sample

All Interference Check Sample (ICS) percent recoveries were acceptable. All QC criteria were met.

Inductively Coupled Plasma Serial Dilutions

All QC criteria were met for the serial dilutions associated with the project samples with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	All Samples	Zinc	J

#### Field Duplicates

Original and field duplicate results were evaluated, and RPD QC criteria (35% Water/ 50% Soil) were met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-02	QM0016 (Original), QM0017 (FD)	Potassium	B/J

#### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

#### **4.4 Nitroaromatic and Nitramine Explosives by SW846 8330**

Overall, the data are of good quality and are usable as reported by the laboratory. Data were reviewed for the following:

#### Holding Times

Technical holding time criteria were met for all samples.

#### Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria.

#### Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

#### Surrogate Recoveries

All surrogate recoveries were within QC criteria.

#### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

#### Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

#### 2<sup>ND</sup> Column Confirmation

The percent difference QC criteria between columns for analyte concentrations were met.

#### Field Duplicates

Original and field duplicate results were evaluated, and no problems were identified.

#### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

### **4.5 Organochlorinated Pesticides by SW846 8081A**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

#### Holding Times

Technical holding time criteria were met for all samples.

#### Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-02	QM0016, QM0017	Endrin ketone	UJ

#### Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

#### Surrogate Recoveries

All surrogate recoveries were within QC criteria.

#### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

### Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

### 2<sup>ND</sup> Column Confirmation

The percent difference QC criteria between columns for analyte concentrations were met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0007	4,4'-DDE, Endrin aldehyde, alpha-BHC	J
	QM0008	Heptachlor	J
10144Q-02	QM0016, QM0017	Endrin	J

### Field Duplicates

Original and field duplicate results were evaluated, and no problems were identified met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0008 (Original), QM0009 (FD)	Heptachlor	J

### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

## **4.6 Organophosphorus Pesticides by SW846 8141A**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

### Holding Times

Technical holding time criteria were met for all samples.

### Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria.

### Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was

applied to all sample results. All were found to be acceptable.

#### Surrogate Recoveries

All surrogate recoveries were within QC criteria.

#### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

#### Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0007, QM0008, QM0009	Naled*	R*
10144Q-02	QM0016, QM0017	Dichlorvos, Naled*	UJ/R*

\*Naled results were rejected due to extremely low recoveries.

#### Field Duplicates

Original and field duplicate results were evaluated, and no problems were identified.

#### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

### **4.7 Herbicides by SW846 8151A**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

#### Holding Times

Technical holding time criteria were met for all samples.

#### Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met with the following exception(s):

SDG	Samples Affected	Compound(s)	Validation Qualifier
10144Q-01	QM0007, QM0008, QM0009	Dinoseb	UJ

Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

Surrogate Recoveries

All surrogate recoveries were within QC criteria.

Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

2<sup>ND</sup> Column Confirmation

The percent difference QC criteria between columns for analyte concentrations were met.

Field Duplicates

Original and field duplicate results were evaluated, and no problems were identified.

Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

***Attachment 1:***  
***Data Validation Qualifier Entry Verification Report***

## **Validation Qualifiers**

- U** Not detected. The compound/analyte was analyzed for, but not detected above the associated reporting limit.
- J** The compound/analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample analyzed.
- B** The concentration reported was detected significantly above the levels reported in the associated equipment rinse samples and/or laboratory method and trip blanks. (5X/10X Rule was applied).
- R** The reported sample results are rejected due to the following:
  1. Severe deficiencies in the supporting quality control data.
  2. Anomalies noted in the sampling and/or analysis process which could affect the validity of the reported data.
  3. The presence or absence of the constituent cannot be verified based on the data provided.
  4. To indicate not to use a particular result in the event of a reanalysis.
- UJ** The compound/analyte was analyzed for, but not detected above the established reporting limit. However, review and evaluation of supporting QC data and/or sampling and analysis process have indicated that the "nondetect" may be inaccurate or imprecise. The nondetect result should be estimated.

## Validation Reason Code Definitions

<b>Reason Code</b>	<b>Definition</b>
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient >0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	Laboratory control sample recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantitation
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgement was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantitation
24	Reported result and/or lab qualifier revised to reflect validation findings

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 1 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-01</b>																		
QM0007	SW8151A	METHOD	N 0 1		2,4,5-T	.014	mg/kg	U	N Y	U	U						G178-03	18:55
					2,4,5-TP(SILVEX)	.014	mg/kg	U	N Y	U	U						G178-03	18:55
					2,4-D	.0089	mg/kg	J	Y Y	P	J			15			G178-03	18:55
					2,4-DB	.029	mg/kg	U	N Y	U	U						G178-03	18:55
					DALAPON	.029	mg/kg	U	N Y	U	U						G178-03	18:55
					DICAMBA	.029	mg/kg	U	N Y	U	U						G178-03	18:55
					DICHLOROPROP	.014	mg/kg	U	N Y	U	U						G178-03	18:55
					DINOSEB	.014	mg/kg	U	N Y	U	UJ			05B		G178-03	18:55	
					MCPA	2.9	mg/kg	U	N Y	U	U						G178-03	18:55
					MCPP	2.9	mg/kg	U	N Y	U	U						G178-03	18:55
QM0008	SW8151A	METHOD	N 0 1		2,4,5-T	.011	mg/kg	U	N Y	U	U						G178-04	19:25
					2,4,5-TP(SILVEX)	.011	mg/kg	U	N Y	U	U						G178-04	19:25
					2,4-D	.011	mg/kg	U	N Y	U	U						G178-04	19:25
					2,4-DB	.023	mg/kg	U	N Y	U	U						G178-04	19:25
					DALAPON	.023	mg/kg	U	N Y	U	U						G178-04	19:25
					DICAMBA	.023	mg/kg	U	N Y	U	U						G178-04	19:25
					DICHLOROPROP	.011	mg/kg	U	N Y	U	U						G178-04	19:25
					DINOSEB	.011	mg/kg	U	N Y	U	UJ			05B		G178-04	19:25	
					MCPA	2.3	mg/kg	U	N Y	U	U						G178-04	19:25
					MCPP	2.3	mg/kg	U	N Y	U	U						G178-04	19:25
QM0009	SW8151A	METHOD	N 0 1		2,4,5-T	.011	mg/kg	U	N Y	U	U						G178-05	19:54
					2,4,5-TP(SILVEX)	.011	mg/kg	U	N Y	U	U						G178-05	19:54
					2,4-D	.011	mg/kg	U	N Y	U	U						G178-05	19:54
					2,4-DB	.023	mg/kg	U	N Y	U	U						G178-05	19:54
					DALAPON	.023	mg/kg	U	N Y	U	U						G178-05	19:54
					DICAMBA	.023	mg/kg	U	N Y	U	U						G178-05	19:54
					DICHLOROPROP	.011	mg/kg	U	N Y	U	U						G178-05	19:54
					DINOSEB	.011	mg/kg	U	N Y	U	UJ			05B		G178-05	19:54	
					MCPA	2.3	mg/kg	U	N Y	U	U						G178-05	19:54
					MCPP	2.3	mg/kg	U	N Y	U	U						G178-05	19:54
QM0007	SW8081A	SW3550	N 0 1		4,4'-DDD	.0058	mg/kg	U	N Y	U	U						G178-03	02:30
					4,4'-DDE	.003	mg/kg	J	Y Y	P	J			15	18		G178-03	02:30
					4,4'-DDT	.0033	mg/kg	J	Y Y	P	J			15			G178-03	02:30
					ALDRIN	.0025	mg/kg	J	Y Y	P	J			15			G178-03	02:30
					ALPHA-BHC	.0016	mg/kg	J	Y Y	P	J			15	18		G178-03	02:30
					ALPHA-CHLORDANE	.0029	mg/kg	U	N Y	U	U						G178-03	02:30
					BETA-BHC	.0013	mg/kg	J	Y Y	P	J			15			G178-03	02:30
					DELTA-BHC	.0029	mg/kg	U	N Y	U	U						G178-03	02:30
					DIELDRIN	.00096	mg/kg	J	Y Y	P	J			15			G178-03	02:30
					ENDOSULFAN I	.0029	mg/kg	U	N Y	U	U						G178-03	02:30

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 2 of 41

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
											1	2	3	4			
<b>10144Q-01</b>																	
QM0007	SW8081A	SW3550	N 0 1	ENDOSULFAN II	.0058	mg/kg	U	N Y	U	U						G178-03	02:30
				ENDOSULFAN SULFATE	.0058	mg/kg	U	N Y	U	U						G178-03	02:30
				ENDRIN	.0058	mg/kg	U	N Y	U	U						G178-03	02:30
				ENDRIN ALDEHYDE	.0033	mg/kg	J	Y Y	P	J	15	18				G178-03	02:30
				ENDRIN KETONE	.0058	mg/kg	U	N Y	U	U						G178-03	02:30
				GAMMA-BHC (LINDANE)	.00086	mg/kg	J	Y Y	P	J	15					G178-03	02:30
				GAMMA-CHLORDANE	.0029	mg/kg	U	N Y	U	U						G178-03	02:30
				HEPTACHLOR	.0029	mg/kg	U	N Y	U	U						G178-03	02:30
				HEPTACHLOR EPOXIDE	.00059	mg/kg	J	Y Y	P	J	15					G178-03	02:30
				METHOXYCHLOR	.026	mg/kg	J	Y Y	P	J	15					G178-03	02:30
				TOXAPHENE	.058	mg/kg	U	N Y	U	U						G178-03	02:30
QM0008	SW8081A	SW3550	N 0 1	4,4'-DDD	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				4,4'-DDE	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				4,4'-DDT	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ALDRIN	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				ALPHA-BHC	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				ALPHA-CHLORDANE	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				BETA-BHC	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				DELTA-BHC	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				DIELDRIN	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDOSULFAN I	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDOSULFAN II	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDOSULFAN SULFATE	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDRIN	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDRIN ALDEHYDE	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				ENDRIN KETONE	.0045	mg/kg	U	N Y	U	U						G178-04	02:55
				GAMMA-BHC (LINDANE)	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				GAMMA-CHLORDANE	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				HEPTACHLOR	.0011	mg/kg	J	Y Y	P	J	15	17	18			G178-04	02:55
				HEPTACHLOR EPOXIDE	.0023	mg/kg	U	N Y	U	U						G178-04	02:55
				METHOXYCHLOR	.023	mg/kg	U	N Y	U	U						G178-04	02:55
				TOXAPHENE	.045	mg/kg	U	N Y	U	U						G178-04	02:55
QM0009	SW8081A	SW3550	N 0 1	4,4'-DDD	.0045	mg/kg	U	N Y		U						G178-05	03:20
				4,4'-DDE	.0045	mg/kg	U	N Y		U						G178-05	03:20
				4,4'-DDT	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ALDRIN	.0023	mg/kg	U	N Y		U						G178-05	03:20
				ALPHA-BHC	.0023	mg/kg	U	N Y		U						G178-05	03:20
				ALPHA-CHLORDANE	.0023	mg/kg	U	N Y		U						G178-05	03:20
				BETA-BHC	.0023	mg/kg	U	N Y		U						G178-05	03:20
				DELTA-BHC	.0023	mg/kg	U	N Y		U						G178-05	03:20

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 3 of 41

Sample Number:	Analytical/Extraction Method:			Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-01</b>																	
QM0009	SW8081A	SW3550	N 0 1	DIELDRIN	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ENDOSULFAN I	.0023	mg/kg	U	N Y		U						G178-05	03:20
				ENDOSULFAN II	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ENDOSULFAN SULFATE	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ENDRIN	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ENDRIN ALDEHYDE	.0045	mg/kg	U	N Y		U						G178-05	03:20
				ENDRIN KETONE	.0045	mg/kg	U	N Y		U						G178-05	03:20
				GAMMA-BHC (LINDANE)	.0023	mg/kg	U	N Y		U						G178-05	03:20
				GAMMA-CHLORDANE	.0023	mg/kg	U	N Y		U						G178-05	03:20
				HEPTACHLOR	.00062	mg/kg	J	Y Y		J		15	17			G178-05	03:20
				HEPTACHLOR EPOXIDE	.0023	mg/kg	U	N Y		U						G178-05	03:20
				METHOXYCHLOR	.023	mg/kg	U	N Y		U						G178-05	03:20
				TOXAPHENE	.045	mg/kg	U	N Y		U						G178-05	03:20
QM0001	SW6010B	SW3050	N 0 1	ALUMINUM	10400	mg/kg		Y Y	P							G155-01	23:16
				ANTIMONY	11.1	mg/kg	U	N Y	U	UJ		08A				G155-01	23:16
				ARSENIC	3.35	mg/kg		Y Y	P							G155-01	18:39
				BARIUM	71.1	mg/kg		Y Y	P							G155-01	23:16
				BERYLLIUM	.427	mg/kg	J	Y Y	P	J		15				G155-01	23:16
				CADMIUM	1.11	mg/kg	U	N Y	U	U						G155-01	23:16
				CALCIUM	128	mg/kg		Y Y	P							G155-01	23:16
				CHROMIUM	10.8	mg/kg		Y Y	P							G155-01	23:16
				COBALT	4	mg/kg		Y Y	P	J		08A				G155-01	23:16
				COPPER	16.5	mg/kg		Y Y	P							G155-01	23:16
				IRON	14900	mg/kg		Y Y	P							G155-01	23:16
				LEAD	199	mg/kg		Y Y	P	J		08A				G155-01	18:39
				MAGNESIUM	379	mg/kg		Y Y	P							G155-01	23:16
				MANGANESE	232	mg/kg		Y Y	P	J		08A				G155-01	23:16
				NICKEL	3.82	mg/kg		Y Y	P							G155-01	23:16
				POTASSIUM	310	mg/kg	J	Y Y	P	J		15				G155-01	23:16
				SELENIUM	.615	mg/kg	J	Y Y	F	B		06B 08A 15				G155-01	18:39
				SILVER	2.21	mg/kg	U	N Y	U	U						G155-01	23:16
				SODIUM	111	mg/kg	U	N Y	U	U						G155-01	23:16
				THALLIUM	2.21	mg/kg	U	N Y	U	UJ		08A				G155-01	18:39
				VANADIUM	15.5	mg/kg		Y Y	P							G155-01	23:16
				ZINC	15.4	mg/kg		Y Y	P	J		13				G155-01	23:16
QM0002	SW7471A	TOTAL	N 0 1	MERCURY	.0485	mg/kg	J	Y Y	P	J		15				G155-01	14:02
	SW6010B	SW3050	N 0 1	ALUMINUM	17100	mg/kg		Y Y	P							G155-02	23:28
				ANTIMONY	11.5	mg/kg	U	N Y	U	UJ		08A				G155-02	23:28
				ARSENIC	4.87	mg/kg		Y Y	P							G155-02	18:28
				BARIUM	51.8	mg/kg		Y Y	P							G155-02	23:28

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 4 of 41

Sample Number:	Analytical/Extraction Method: Flt REX Dil:				Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
													1	2	3	4		
<b>10144Q-01</b>					BERYLLIUM	1.15	mg/kg	U	N Y	U	U						G155-02	23:28
	QM0002	SW6010B	SW3050	N 0 1	CADMIUM	1.15	mg/kg	U	N Y	U	U						G155-02	23:28
					CALCIUM	140	mg/kg		Y Y	P						G155-02	23:28	
					CHROMIUM	18.3	mg/kg		Y Y	P						G155-02	23:28	
					COBALT	4.42	mg/kg		Y Y	P	J			08A		G155-02	23:28	
					COPPER	9.08	mg/kg		Y Y	P						G155-02	23:28	
					IRON	29400	mg/kg		Y Y	P						G155-02	23:28	
					LEAD	20.3	mg/kg		Y Y	P	J		08A		G155-02	18:28		
					MAGNESIUM	450	mg/kg		Y Y	P						G155-02	23:28	
					MANGANESE	328	mg/kg		Y Y	P	J		08A		G155-02	23:28		
					NICKEL	5.86	mg/kg		Y Y	P						G155-02	23:28	
					POTASSIUM	343	mg/kg	J	Y Y	P	J		15		G155-02	23:28		
					SELENIUM	1.59	mg/kg		Y Y	F	B		06B 08A		G155-02	18:28		
					SILVER	2.3	mg/kg	U	N Y	U	U				G155-02	23:28		
					SODIUM	115	mg/kg	U	N Y	U	U				G155-02	23:28		
					THALLIUM	2.3	mg/kg	U	N Y	U	UJ		08A		G155-02	18:28		
					VANADIUM	28.7	mg/kg		Y Y	P					G155-02	23:28		
					ZINC	14.9	mg/kg		Y Y	P	J		13		G155-02	23:28		
		SW7471A	TOTAL	N 0 I	MERCURY	.0766	mg/kg	J	Y Y	P	J		15		G155-02	14:11		
QM0003	SW6010B	SW3050	N 0 1		ALUMINUM	7600	mg/kg		Y Y	P						G155-03	23:33	
					ANTIMONY	13.3	mg/kg	U	N Y	U	UJ		08A		G155-03	23:33		
					ARSENIC	3.82	mg/kg		Y Y	P					G155-03	18:34		
					BARIUM	87	mg/kg		Y Y	P					G155-03	23:33		
					BERYLLIUM	1.33	mg/kg	U	N Y	U	U				G155-03	23:33		
					CADMIUM	1.33	mg/kg	U	N Y	U	U				G155-03	23:33		
					CALCIUM	392	mg/kg		Y Y	P					G155-03	23:33		
					CHROMIUM	7.14	mg/kg		Y Y	P					G155-03	23:33		
					COBALT	5.39	mg/kg		Y Y	P	J		08A		G155-03	23:33		
					COPPER	88.7	mg/kg		Y Y	P					G155-03	23:33		
					IRON	8520	mg/kg		Y Y	P					G155-03	23:33		
					LEAD	1270	mg/kg		Y Y	P	J		08A		G155-03	18:34		
					MAGNESIUM	356	mg/kg		Y Y	P					G155-03	23:33		
					MANGANESE	1050	mg/kg		Y Y	P	J		08A		G155-03	23:33		
					NICKEL	4.65	mg/kg		Y Y	P					G155-03	23:33		
					POTASSIUM	387	mg/kg	J	Y Y	P	J		15		G155-03	23:33		
					SELENIUM	.836	mg/kg	J	Y Y	F	B		06B 08A 15		G155-03	18:34		
					SILVER	2.66	mg/kg	U	N Y	U	U				G155-03	23:33		
					SODIUM	133	mg/kg	U	N Y	U	U				G155-03	23:33		
					THALLIUM	2.66	mg/kg	U	N Y	U	UJ		08A		G155-03	18:34		
					VANADIUM	12.5	mg/kg		Y Y	P					G155-03	23:33		

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 5 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-01</b>																		
QM0003	SW6010B	SW3050	N 0 1	ZINC		29.3	mg/kg		Y Y P	J		13					G155-03	23:33
	SW7471A	TOTAL	N 0 1	MERCURY		.0826	mg/kg	J	Y Y P	J		15					G155-03	14:22
QM0004	SW6010B	SW3050	N 0 1	ALUMINUM		17000	mg/kg		Y Y P								G155-04	23:47
				ANTIMONY		11.7	mg/kg	U	N Y U	UJ		08A				G155-04	23:47	
				ARSENIC		5.66	mg/kg		Y Y P							G155-04	19:18	
				BARIUM		65.1	mg/kg		Y Y P							G155-04	23:47	
				BERYLLIUM		.436	mg/kg	J	Y Y P	J		15				G155-04	23:47	
				CADMUM		1.17	mg/kg	U	N Y U	U						G155-04	23:47	
				CALCIUM		135	mg/kg		Y Y P							G155-04	23:47	
				CHROMIUM		16.3	mg/kg		Y Y P							G155-04	23:47	
				COBALT		5.18	mg/kg		Y Y P	J		08A				G155-04	23:47	
				COPPER		19.1	mg/kg		Y Y P							G155-04	23:47	
				IRON		20600	mg/kg		Y Y P							G155-04	23:47	
				LEAD		174	mg/kg		Y Y P	J		08A				G155-04	19:18	
				MAGNESIUM		589	mg/kg		Y Y P							G155-04	23:47	
				MANGANESE		280	mg/kg		Y Y P	J		08A				G155-04	23:47	
				NICKEL		8	mg/kg		Y Y P							G155-04	23:47	
				POTASSIUM		430	mg/kg	J	Y Y P	J		15				G155-04	23:47	
				SELENIUM		.902	mg/kg	J	Y Y F	B		06B 08A 15				G155-04	19:18	
				SILVER		2.34	mg/kg	U	N Y U	U						G155-04	23:47	
				SODIUM		117	mg/kg	U	N Y U	U						G155-04	23:47	
				THALLIUM		2.34	mg/kg	U	N Y U	U						G155-04	19:18	
				VANADIUM		27.7	mg/kg		Y Y P							G155-04	23:47	
				ZINC		27.7	mg/kg		Y Y P	J		13				G155-04	23:47	
	SW7471A	TOTAL	N 0 1	MERCURY		.0613	mg/kg	J	Y Y P	J		15				G155-04	14:25	
QM0005	SW6010B	SW3050	N 0 1	ALUMINUM		6650	mg/kg		Y Y P							G178-01	23:52	
				ANTIMONY		12.4	mg/kg	U	N Y U	UJ		08A				G178-01	23:52	
				ARSENIC		3.93	mg/kg		Y Y P							G178-01	19:23	
				BARIUM		43.8	mg/kg		Y Y P							G178-01	23:52	
				BERYLLIUM		.439	mg/kg	J	Y Y P	J		15				G178-01	23:52	
				CADMUM		1.24	mg/kg	U	N Y U	U						G178-01	23:52	
				CALCIUM		12900	mg/kg		Y Y P							G178-01	23:52	
				CHROMIUM		22	mg/kg		Y Y P							G178-01	23:52	
				COBALT		1.66	mg/kg	J	Y Y P	J		08A 15				G178-01	23:52	
				COPPER		21.5	mg/kg		Y Y P							G178-01	23:52	
				IRON		19400	mg/kg		Y Y P							G178-01	23:52	
				LEAD		36.5	mg/kg		Y Y P	J		08A				G178-01	19:23	
				MAGNESIUM		7480	mg/kg		Y Y P							G178-01	23:52	
				MANGANESE		153	mg/kg		Y Y P	J		08A				G178-01	23:52	
				NICKEL		3.38	mg/kg		Y Y P							G178-01	23:52	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 6 of 41

Sample Number:	Analytical/Extraction Method:				Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	Flt	REX	Dil:										1	2	3	4			
<b>10144Q-01</b>																			
QM0005	SW6010B	SW3050	N	0	1	POTASSIUM	754	mg/kg		Y Y P								G178-01	23:52
						SELENIUM	1.24	mg/kg	U	N Y U	UJ		08A					G178-01	19:23
						SILVER	2.48	mg/kg	U	N Y U	U						G178-01	23:52	
						SODIUM	25.4	mg/kg	J	Y Y P	J		15				G178-01	23:52	
						THALLIUM	2.48	mg/kg	U	N Y U	UJ		08A				G178-01	19:23	
						VANADIUM	13.2	mg/kg		Y Y P							G178-01	23:52	
						ZINC	17.9	mg/kg		Y Y P	J		13				G178-01	23:52	
	SW7471A	TOTAL	N	0	1	MERCURY	.124	mg/kg	U	N Y U	U						G178-01	14:57	
QM0006	SW6010B	SW3050	N	0	1	ALUMINUM	7620	mg/kg		Y Y P							G178-02	23:57	
						ANTIMONY	12.9	mg/kg	U	N Y U	UJ		08A				G178-02	23:57	
						ARSENIC	3.2	mg/kg		Y Y P						G178-02	19:29		
						BARIUM	50.2	mg/kg		Y Y P						G178-02	23:57		
						BERYLLIUM	1.29	mg/kg	U	N Y U	U					G178-02	23:57		
						CADMIUM	1.29	mg/kg	U	N Y U	U					G178-02	23:57		
						CALCIUM	10100	mg/kg		Y Y P						G178-02	23:57		
						CHROMIUM	7.97	mg/kg		Y Y P						G178-02	23:57		
						COBALT	1.34	mg/kg	J	Y Y P	J		08A 15			G178-02	23:57		
						COPPER	20.2	mg/kg		Y Y P						G178-02	23:57		
						IRON	11400	mg/kg		Y Y P						G178-02	23:57		
						LEAD	39.3	mg/kg		Y Y P	J		08A			G178-02	19:29		
						MAGNESIUM	5780	mg/kg		Y Y P						G178-02	23:57		
						MANGANESE	156	mg/kg		Y Y P	J		08A			G178-02	23:57		
						NICKEL	3	mg/kg		Y Y P						G178-02	23:57		
						POTASSIUM	804	mg/kg		Y Y P						G178-02	23:57		
						SELENIUM	1.29	mg/kg	U	N Y U	UJ		08A			G178-02	19:29		
						SILVER	2.57	mg/kg	U	N Y U	U					G178-02	23:57		
						SODIUM	26.4	mg/kg	J	Y Y P	J		15			G178-02	23:57		
						THALLIUM	2.57	mg/kg	U	N Y U	UJ		08A			G178-02	19:29		
						VANADIUM	10.6	mg/kg		Y Y P						G178-02	23:57		
						ZINC	18.9	mg/kg		Y Y P	J		13			G178-02	23:57		
	SW7471A	TOTAL	N	0	1	MERCURY	.0328	mg/kg	J	Y Y P	J		15			G178-02	14:59		
QM0007	SW6010B	SW3050	N	0	1	ALUMINUM	11800	mg/kg		Y Y P						G178-03	00:01		
						ANTIMONY	22.5	mg/kg		Y Y P	J		08A			G178-03	00:01		
						ARSENIC	8.52	mg/kg		Y Y P						G178-03	19:34		
						BARIUM	531	mg/kg		Y Y P						G178-03	00:01		
						BERYLLIUM	1.11	mg/kg	J	Y Y P	J		15			G178-03	00:01		
						CADMIUM	18.8	mg/kg		Y Y P						G178-03	00:01		
						CALCIUM	15800	mg/kg		Y Y P						G178-03	00:01		
						CHROMIUM	20.6	mg/kg		Y Y P						G178-03	00:01		
						COBALT	5.25	mg/kg		Y Y P	J		08A			G178-03	00:01		

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 7 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3										1	2	3	4			
<b>10144Q-01</b>																			
QM0007	SW6010B	SW3050	N 0 1		COPPER	112	mg/kg		Y Y P									G178-03	00:01
					IRON	32400	mg/kg		Y Y P									G178-03	00:01
					LEAD	188	mg/kg		Y Y P J									G178-03	19:34
					MAGNESIUM	471	mg/kg		Y Y P									G178-03	00:01
					MANGANESE	1430	mg/kg		Y Y P J									G178-03	00:01
					NICKEL	27	mg/kg		Y Y P									G178-03	00:01
					POTASSIUM	477	mg/kg	J	Y Y P J					15				G178-03	00:01
					SELENIUM	1.88	mg/kg		Y Y P J					08A				G178-03	19:34
					SILVER	2.9	mg/kg	U	N Y U U									G178-03	00:01
					SODIUM	115	mg/kg	J	Y Y P J					15				G178-03	00:01
					THALLIUM	2.9	mg/kg	U	N Y U UJ					08A				G178-03	19:34
					VANADIUM	9.23	mg/kg		Y Y P									G178-03	00:01
					ZINC	9540	mg/kg		Y Y P J					13				G178-03	00:01
	SW7471A	TOTAL	N 0 1		MERCURY	.123	mg/kg	J	Y Y P J					15				G178-03	15:02
QM0008	SW6010B	SW3050	N 0 1		ALUMINUM	14200	mg/kg		Y Y P									G178-04	00:06
					ANTIMONY	11.4	mg/kg	U	N Y U UJ					08A				G178-04	00:06
					ARSENIC	3.48	mg/kg		Y Y P									G178-04	19:40
					BARIUM	170	mg/kg		Y Y P									G178-04	00:06
					BERYLLIUM	.993	mg/kg	J	Y Y P J					15				G178-04	00:06
					CADMIUM	1.7	mg/kg		Y Y P									G178-04	00:06
					CALCIUM	592	mg/kg		Y Y P									G178-04	00:06
					CHROMIUM	9.95	mg/kg		Y Y P									G178-04	00:06
					COBALT	6.3	mg/kg		Y Y P J					08A				G178-04	00:06
					COPPER	9.5	mg/kg		Y Y P									G178-04	00:06
					IRON	11900	mg/kg		Y Y P									G178-04	00:06
					LEAD	14.7	mg/kg		Y Y P J					08A				G178-04	19:40
					MAGNESIUM	535	mg/kg		Y Y P									G178-04	00:06
					MANGANESE	1090	mg/kg		Y Y P J					08A				G178-04	00:06
					NICKEL	6.14	mg/kg		Y Y P									G178-04	00:06
					POTASSIUM	384	mg/kg	J	Y Y P J					15				G178-04	00:06
					SELENIUM	.943	mg/kg	J	Y Y F B					06B 08A 15				G178-04	19:40
					SILVER	2.27	mg/kg	U	N Y U U									G178-04	00:06
					SODIUM	21.9	mg/kg	J	Y Y P J					15				G178-04	00:06
					THALLIUM	2.27	mg/kg	U	N Y U UJ					08A				G178-04	19:40
					VANADIUM	14.3	mg/kg		Y Y P									G178-04	00:06
					ZINC	242	mg/kg		Y Y P J					13				G178-04	00:06
	SW7471A	TOTAL	N 0 1		MERCURY	.06	mg/kg	J	Y Y P J					15				G178-04	15:04
QM0009	SW6010B	SW3050	N 0 1		ALUMINUM	13600	mg/kg		Y Y									G178-05	00:11
					ANTIMONY	11.3	mg/kg	U	N Y U J					08A				G178-05	00:11
					ARSENIC	3.33	mg/kg		Y Y									G178-05	19:45

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 8 of 41

Sample Number:	Analytical/Extraction Method:				Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3	4																
<b>10144Q-01</b>																				
QM0009	SW6010B	SW3050	N 0 1	BARIUM			175	mg/kg		Y Y								G178-05	00:11	
				BERYLLIUM			.938	mg/kg	J	Y Y		J			15			G178-05	00:11	
				CADMIUM			2.28	mg/kg		Y Y								G178-05	00:11	
				CALCIUM			683	mg/kg		Y Y								G178-05	00:11	
				CHROMIUM			8.84	mg/kg		Y Y								G178-05	00:11	
				COBALT			6.42	mg/kg		Y Y		J			08A			G178-05	00:11	
				COPPER			10.2	mg/kg		Y Y								G178-05	00:11	
				IRON			11200	mg/kg		Y Y								G178-05	00:11	
				LEAD			15	mg/kg		Y Y		J			08A			G178-05	19:45	
				MAGNESIUM			499	mg/kg		Y Y								G178-05	00:11	
				MANGANESE			1110	mg/kg		Y Y		J			08A			G178-05	00:11	
				NICKEL			5.9	mg/kg		Y Y								G178-05	00:11	
				POTASSIUM			423	mg/kg	J	Y Y		J			15			G178-05	00:11	
				SELENIUM			1.13	mg/kg	U	N Y		UJ			08A			G178-05	19:45	
				SILVER			2.26	mg/kg	U	N Y		U						G178-05	00:11	
				SODIUM			113	mg/kg	U	N Y		U						G178-05	00:11	
				THALLIUM			2.26	mg/kg	U	N Y		UJ			08A			G178-05	19:45	
				VANADIUM			13.8	mg/kg		Y Y								G178-05	00:11	
				ZINC			279	mg/kg		Y Y		J			13			G178-05	00:11	
QM0010	SW7471A	TOTAL	N 0 1	MERCURY			.0595	mg/kg	J	Y Y		J			15			G178-05	15:06	
				SW6010B	SW3050	N 0 1	ALUMINUM			9840	mg/kg		Y Y P						G178-06	00:16
				ANTIMONY			11.8	mg/kg	U	N Y U		UJ			08A			G178-06	00:16	
				ARSENIC			2.84	mg/kg		Y Y P								G178-06	19:51	
				BARIUM			88	mg/kg		Y Y P								G178-06	00:16	
				BERYLLIUM			.419	mg/kg	J	Y Y P		J			15			G178-06	00:16	
				CADMIUM			1.18	mg/kg	U	N Y U		U						G178-06	00:16	
				CALCIUM			381	mg/kg		Y Y P								G178-06	00:16	
				CHROMIUM			9.6	mg/kg		Y Y P								G178-06	00:16	
				COBALT			4.51	mg/kg		Y Y P		J			08A			G178-06	00:16	
				COPPER			16.1	mg/kg		Y Y P								G178-06	00:16	
				IRON			8170	mg/kg		Y Y P								G178-06	00:16	
				LEAD			61.9	mg/kg		Y Y P		J			08A			G178-06	19:51	
				MAGNESIUM			369	mg/kg		Y Y P								G178-06	00:16	
				MANGANESE			584	mg/kg		Y Y P		J			08A			G178-06	00:16	
				NICKEL			5.57	mg/kg		Y Y P								G178-06	00:16	
				POTASSIUM			514	mg/kg	J	Y Y P		J			15			G178-06	00:16	
				SELENIUM			1.18	mg/kg	U	N Y U		UJ			08A			G178-06	19:51	
				SILVER			2.37	mg/kg	U	N Y U		U						G178-06	00:16	
				SODIUM			118	mg/kg	U	N Y U		U						G178-06	00:16	
				THALLIUM			2.37	mg/kg	U	N Y U		UJ			08A			G178-06	19:51	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 9 of 41

Sample Number:	Analytical/Extraction Method:				Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	Flt	REX	Dil:										1	2	3	4			
<b>10144Q-01</b>																			
QM0010	SW6010B	SW3050	N 0 1	VANADIUM		10.9	mg/kg		Y Y P									G178-06	00:16
				ZINC		28.8	mg/kg		Y Y P	J								G178-06	00:16
	SW7471A	TOTAL	N 0 1	MERCURY		.05	mg/kg	J	Y Y P	J								G178-06	15:08
QM0011	SW6010B	SW3050	N 0 1	ALUMINUM		18800	mg/kg		Y Y P									G178-07	00:20
				ANTIMONY		11.3	mg/kg	U	N Y U	UJ							G178-07	00:20	
				ARSENIC		3.72	mg/kg		Y Y P								G178-07	19:56	
				BARIUM		75.5	mg/kg		Y Y P								G178-07	00:20	
				BERYLLIUM		1.13	mg/kg	U	N Y U	U							G178-07	00:20	
				CADMIUM		1.13	mg/kg	U	N Y U	U							G178-07	00:20	
				CALCIUM		167	mg/kg		Y Y P								G178-07	00:20	
				CHROMIUM		13	mg/kg		Y Y P								G178-07	00:20	
				COBALT		3.39	mg/kg		Y Y P	J							G178-07	00:20	
				COPPER		7.43	mg/kg		Y Y P								G178-07	00:20	
				IRON		14100	mg/kg		Y Y P								G178-07	00:20	
				LEAD		13.6	mg/kg		Y Y P	J							G178-07	19:56	
				MAGNESIUM		723	mg/kg		Y Y P								G178-07	00:20	
				MANGANESE		173	mg/kg		Y Y P	J							G178-07	00:20	
				NICKEL		6.27	mg/kg		Y Y P								G178-07	00:20	
				POTASSIUM		539	mg/kg	J	Y Y P	J							G178-07	00:20	
				SELENIUM		.96	mg/kg	J	Y Y F	B							G178-07	19:56	
				SILVER		2.27	mg/kg	U	N Y U	U							G178-07	00:20	
				SODIUM		113	mg/kg	U	N Y U	U							G178-07	00:20	
				THALLIUM		2.27	mg/kg	U	N Y U	UJ							G178-07	19:56	
				VANADIUM		22.4	mg/kg		Y Y P								G178-07	00:20	
				ZINC		22.6	mg/kg		Y Y P	J							G178-07	00:20	
	SW7471A	TOTAL	N 0 1	MERCURY		.0718	mg/kg	J	Y Y P	J							G178-07	15:10	
QM0001	SW8330	METHOD	N 0 1	1,3,5-TNB		.4	mg/kg	U	N Y U	U							G155-01	09:13	
				1,3-DNB		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				2,4,6-TNT		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				2,4-DNT		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				2,6-DNT		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				2-AM-4,6-DNT		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				2-NITROTOLUENE		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				3-NITROTOLUENE		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				4-AM-2,6-DNT		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				4-NITROTOLUENE		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				HMX		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				NITROBENZENE		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				RDX		.4	mg/kg	U	N Y U	U						G155-01	09:13		
				TETRYL		.4	mg/kg	U	N Y U	U						G155-01	09:13		

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 10 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:								1	2	3	4		
<b>10144Q-01</b>																	
QM0002	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						1,3-DNB	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						2,4-DNT	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						HMX	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						RDX	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
						TETRYL	.4	mg/kg	U	N	Y	U	U			G155-02	10:39
QM0003	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						1,3-DNB	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						2,4-DNT	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						HMX	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						RDX	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
						TETRYL	.4	mg/kg	U	N	Y	U	U			G155-03	11:08
QM0004	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						1,3-DNB	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						2,4-DNT	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						HMX	.4	mg/kg	U	N	Y	U	U			G155-04	12:33
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U			G155-04	12:33

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 11 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	Method:	Flt	REX	Dil:								1	2	3	4			
<b>10144Q-01</b>																		
QM0004	SW8330	METHOD	N	0	1	RDX	.4	mg/kg	U	N	Y	U	U				G155-04	12:33
						TETRYL	.4	mg/kg	U	N	Y	U	U				G155-04	12:33
QM0005	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						1,3-DNB	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						2,4-DNT	.11	mg/kg	J	Y	Y	P	J	15			G178-01	13:02
						2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						HMX	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						RDX	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
						TETRYL	.4	mg/kg	U	N	Y	U	U				G178-01	13:02
QM0006	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						1,3-DNB	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						2,4-DNT	.25	mg/kg	J	Y	Y	P	J	15			G178-02	15:32
						2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						HMX	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						RDX	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
						TETRYL	.4	mg/kg	U	N	Y	U	U				G178-02	15:32
QM0007	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						1,3-DNB	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						2,4-DNT	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U				G178-03	16:01
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				G178-03	16:01

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 12 of 41

Sample Number:	Analytical/Extraction Method:				Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3	4															
<b>10144Q-01</b>																			
QM0007	SW8330	METHOD	N	0	1	HMX	.4	mg/kg	U	N	Y	U	U					G178-03	16:01
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G178-03	16:01
						RDX	.4	mg/kg	U	N	Y	U	U					G178-03	16:01
						TETRYL	.4	mg/kg	U	N	Y	U	U					G178-03	16:01
QM0008	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						1,3-DNB	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						2,4-DNT	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						HMX	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						RDX	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
						TETRYL	.4	mg/kg	U	N	Y	U	U					G178-04	16:30
QM0009	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						1,3-DNB	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						2,4-DNT	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						HMX	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						RDX	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
						TETRYL	.4	mg/kg	U	N	Y	U	U					G178-05	16:59
QM0010	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						1,3-DNB	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						2,4-DNT	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-06	17:28

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 13 of 41

Sample Number:	Analytical/Extraction Method:				Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3	4															
<b>10144Q-01</b>																			
QM0010	SW8330	METHOD	N	0	1	4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						HMX	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						RDX	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
						TETRYL	.4	mg/kg	U	N	Y	U	U					G178-06	17:28
QM0011	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						1,3-DNB	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						2,4-DNT	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						HMX	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						RDX	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
						TETRYL	.4	mg/kg	U	N	Y	U	U					G178-07	17:56
QM0007	SW8141A	SW3545	N	0	1	AZINPHOS-METHYL	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						BOLSTAR	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						CHLORPYRIFOS	.097	mg/kg	U	N	Y	U	U					G178-03	14:18
						COUMAPHOS	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						DEMETON (TOTAL)	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						DIAZINON	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						DICHLORVOS	.097	mg/kg	U	N	Y	U	U					G178-03	14:18
						DIMETHOATE	.097	mg/kg	U	N	Y	U	U					G178-03	14:18
						DISULFOTON	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						ETHOPROP	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						FAMPHUR	.097	mg/kg	U	N	Y	U	U					G178-03	14:18
						FENSULFOOTHION	.097	mg/kg	U	N	Y	U	U					G178-03	14:18
						FENTHION	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						MALATHIION	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						MERPHOS	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						METHYL PARATHION	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						MEVINPHOS	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						NALED	.048	mg/kg	U	N	Y	U	R			11A		G178-03	14:18
						PARATHION	.048	mg/kg	U	N	Y	U	U					G178-03	14:18
						PHORATE	.048	mg/kg	U	N	Y	U	U					G178-03	14:18

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 14 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:								1	2	3	4		
<b>10144Q-01</b>																	
QM0007	SW8141A	SW3545	N	0	1	RONNEL	.048	mg/kg	U	N Y U	U					G178-03	14:18
						STIOPHOS	.048	mg/kg	U	N Y U	U					G178-03	14:18
						SULFOTEPP	.048	mg/kg	U	N Y U	U					G178-03	14:18
						THIONAZIN	.048	mg/kg	U	N Y U	U					G178-03	14:18
						TOKUTHION	.048	mg/kg	U	N Y U	U					G178-03	14:18
						TRICHLORONATE	.048	mg/kg	U	N Y U	U					G178-03	14:18
QM0008	SW8141A	SW3545	N	0	1	AZINPHOS-METHYL	.037	mg/kg	U	N Y U	U					G178-04	18:59
						BOLSTAR	.037	mg/kg	U	N Y U	U					G178-04	18:59
						CHLORPYRIFOS	.076	mg/kg	U	N Y U	U					G178-04	18:59
						COUMAPHOS	.037	mg/kg	U	N Y U	U					G178-04	18:59
						DEMETON (TOTAL)	.037	mg/kg	U	N Y U	U					G178-04	18:59
						DIAZINON	.037	mg/kg	U	N Y U	U					G178-04	18:59
						DICHLORVOS	.076	mg/kg	U	N Y U	U					G178-04	18:59
						DIMETHOATE	.076	mg/kg	U	N Y U	U					G178-04	18:59
						DISULFOTON	.037	mg/kg	U	N Y U	U					G178-04	18:59
						ETHOPROP	.037	mg/kg	U	N Y U	U					G178-04	18:59
						FAMPHUR	.076	mg/kg	U	N Y U	U					G178-04	18:59
						FENSULFOOTHION	.076	mg/kg	U	N Y U	U					G178-04	18:59
						FENTHION	.037	mg/kg	U	N Y U	U					G178-04	18:59
						MALATHION	.037	mg/kg	U	N Y U	U					G178-04	18:59
						MERPHOS	.037	mg/kg	U	N Y U	U					G178-04	18:59
						METHYL PARATHION	.037	mg/kg	U	N Y U	U					G178-04	18:59
						MEVINPHOS	.037	mg/kg	U	N Y U	U					G178-04	18:59
						NALED	.037	mg/kg	U	N Y U	R			11A		G178-04	18:59
						PARATHION	.037	mg/kg	U	N Y U	U					G178-04	18:59
						PHORATE	.037	mg/kg	U	N Y U	U					G178-04	18:59
						RONNEL	.037	mg/kg	U	N Y U	U					G178-04	18:59
						STIOPHOS	.037	mg/kg	U	N Y U	U					G178-04	18:59
						SULFOTEPP	.037	mg/kg	U	N Y U	U					G178-04	18:59
						THIONAZIN	.037	mg/kg	U	N Y U	U					G178-04	18:59
						TOKUTHION	.037	mg/kg	U	N Y U	U					G178-04	18:59
						TRICHLORONATE	.037	mg/kg	U	N Y U	U					G178-04	18:59
QM0009	SW8141A	SW3545	N	0	1	AZINPHOS-METHYL	.037	mg/kg	U	N Y	U					G178-05	15:17
						BOLSTAR	.037	mg/kg	U	N Y	U					G178-05	15:17
						CHLORPYRIFOS	.076	mg/kg	U	N Y	U					G178-05	15:17
						COUMAPHOS	.037	mg/kg	U	N Y	U					G178-05	15:17
						DEMETON (TOTAL)	.037	mg/kg	U	N Y	U					G178-05	15:17
						DIAZINON	.037	mg/kg	U	N Y	U					G178-05	15:17
						DICHLORVOS	.076	mg/kg	U	N Y	U					G178-05	15:17
						DIMETHOATE	.076	mg/kg	U	N Y	U					G178-05	15:17

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 15 of 41

Sample Number:	Analytical/Extraction Method: Flt REX Dil:				Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-01</b>																		
QM0009	SW8141A	SW3545	N	0	1	DISULFOTON	.037	mg/kg	U	N Y	U						G178-05	15:17
						ETHOPROP	.037	mg/kg	U	N Y	U						G178-05	15:17
						FAMPHUR	.076	mg/kg	U	N Y	U						G178-05	15:17
						FENSULFOOTHION	.076	mg/kg	U	N Y	U						G178-05	15:17
						FENTHION	.037	mg/kg	U	N Y	U						G178-05	15:17
						MALATHION	.037	mg/kg	U	N Y	U						G178-05	15:17
						MERPHOS	.037	mg/kg	U	N Y	U						G178-05	15:17
						METHYL PARATHION	.037	mg/kg	U	N Y	U						G178-05	15:17
						MEVINPHOS	.037	mg/kg	U	N Y	U						G178-05	15:17
						NALED	.037	mg/kg	U	N Y	R				11A		G178-05	15:17
						PARATHION	.037	mg/kg	U	N Y	U						G178-05	15:17
						PHORATE	.037	mg/kg	U	N Y	U						G178-05	15:17
						RONNEL	.037	mg/kg	U	N Y	U						G178-05	15:17
						STIOPHOS	.037	mg/kg	U	N Y	U						G178-05	15:17
						SULFOTEPP	.037	mg/kg	U	N Y	U						G178-05	15:17
						THIONAZIN	.037	mg/kg	U	N Y	U						G178-05	15:17
						TOKUTHION	.037	mg/kg	U	N Y	U						G178-05	15:17
						TRICHLORONATE	.037	mg/kg	U	N Y	U						G178-05	15:17
QM0007	SW8270C	SW3550	N	0	2	1,2,4-TRICHLOROBENZENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						1,2-DICHLOROBENZENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						1,3-DICHLOROBENZENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						1,4-DICHLOROBENZENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4,5-TRICHLOROPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4,6-TRICHLOROPHENOL	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4-DICHLOROPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4-DIMETHYLPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4-DINITROPHENOL	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						2,4-DINITROTOLUENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2,6-DINITROTOLUENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2-CHLORONAPHTHALENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2-CHLOROPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2-METHYLNAPHTHALENE	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2-METHYLPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						2-NITROANILINE	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						2-NITROPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						3-NITROANILINE	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y	U	U					G178-03	22:09
						4-BROMOPHENYL-PHENYL ETHER	.96	mg/kg	U	N Y	U	U					G178-03	22:09
						4-CHLORO-3-METHYLPHENOL	.96	mg/kg	U	N Y	U	U					G178-03	22:09

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 16 of 41

Sample Number:	Analytical/Extraction Method:				Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	Flt	REX	Dil:	Parameter:								1	2	3	4			
<b>10144Q-01</b>																		
QM0007	SW8270C	SW3550	N 0 2	4-CHLOROANILINE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				4-CHLOROPHENYL-PHENYL ETHER	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				4-METHYLPHENOL	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				4-NITROANILINE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				4-NITROPHENOL	1.8	mg/kg	U	N Y	U	U						G178-03	22:09	
				ACENAPHTHENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				ACENAPHTHYLENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				ANTHRACENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BENZO(A)ANTHRACENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BENZO(A)PYRENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BENZO(B)FLUORANTHENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BENZO(G,H,I)PERYLENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BENZO(K)FLUORANTHENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BIS(2-CHLOROETHOXY)METHANE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BIS(2-CHLOROETHYL)ETHER	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BIS(2-CHLOROISOPROPYL)ETHER	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BIS(2-ETHYLHEXYL)PHTHALATE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				BUTYLBENZYLPHthalate	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				CARBAZOLE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				CHRYSENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DI-N-BUTYLPHTHALATE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DI-N-OCTYLPHTHALATE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DIBENZO(A,H)ANTHRACENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DIBENZOFURAN	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DIETHYLPHTHALATE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				DIMETHYLPHTHALATE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				FLUORANTHENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				FLUORENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				HEXACHLOROBENZENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				HEXACHLOROBUTADIENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				HEXACHLOROCYCLOPENTADIENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				HEXACHLOROETHANE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				INDENO(1,2,3-CD)PYRENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				ISOPHORONE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				N-NITROSO-DI-N-PROPYLAMINE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				N-NITROSODIPHENYLAMINE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				NAPHTHALENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				NITROBENZENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	
				PENTACHLOROPHENOL	1.8	mg/kg	U	N Y	U	U						G178-03	22:09	
				PHENANTHRENE	.96	mg/kg	U	N Y	U	U						G178-03	22:09	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 17 of 41

Sample Number:	Analytical/Extraction Method:			Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-01</b>																	
QM0007	SW8270C	SW3550	N 0 2	PHENOL	.96	mg/kg	U	N	Y	U	U					G178-03	22:09
				PYRENE	.96	mg/kg	U	N	Y	U	U					G178-03	22:09
QM0008	SW8270C	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				1,2-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				1,3-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				1,4-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4,6-TRICHLOROPHENOL	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4-DICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4-DIMETHYLPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4-DINITROPHENOL	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,4-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2,6-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-CHLORONAPHTHALENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-CHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-METHYLNAPHTHALENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-NITROANILINE	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				2-NITROPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				3,3'-DICHLOROBENZIDINE	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				3-NITROANILINE	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				4,6-DINITRO-2-METHYLPHENOL	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-BROMOPHENYL-PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-CHLOROANILINE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-CHLOROPHENYL-PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-NITROANILINE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				4-NITROPHENOL	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				ACENAPHTHENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				ACENAPHTHYLENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				ANTHRACENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BENZO(A)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BENZO(A)PYRENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BENZO(B)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BENZO(G,H,I)PERYLENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BENZO(K)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BIS(2-CHLOROETHYL)ETHER	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BIS(2-CHLOROISOPROPYL)ETHER	.37	mg/kg	U	N	Y	U	U					G178-04	22:39

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 18 of 41

Sample Number:	Analytical/Extraction			Parameter:	Result:	Units:	Qlfrc:	Hit Use	BCF	Val Qlfrc	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX Dil:									1	2	3	4		
<b>10144Q-01</b>																	
QM0008	SW8270C	SW3550	N 0 1	BIS(2-ETHYLHEXYL)PHTHALATE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				BUTYLBENZYLPHthalate	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				CARBAZOLE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				CHRYSENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DI-N-BUTYLPHthalate	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DI-N-OCTYLPHthalate	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DIBENZO(A,H)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DIBENZOFURAN	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DIETHYLPHthalate	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				DIMETHYLPHthalate	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				FLUORENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				HEXAChlorOBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				HEXAChlorOBUTADIENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				HEXAChlorOCYCLOPENTADIENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				HEXAChlorOETHANE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				ISOPHORONE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				N-NITROSO-DI-N-PROPYLAMINE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				NAPHTHALENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				NITROBENZENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				PENTACHLOROPHENOL	.72	mg/kg	U	N	Y	U	U					G178-04	22:39
				PHENANTHRENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				PHENOL	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
				PYRENE	.37	mg/kg	U	N	Y	U	U					G178-04	22:39
QM0009	SW8270C	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				1,2-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				1,3-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				1,4-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2,4,6-TRICHLOROPHENOL	.71	mg/kg	U	N	Y	U						G178-05	23:09
				2,4-DICHLOROPHENOL	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2,4-DIMETHYLPHENOL	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2,4-DINITROPHENOL	.71	mg/kg	U	N	Y	U						G178-05	23:09
				2,4-DINITROTOLUENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2,6-DINITROTOLUENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2-CHLORONAPHTHALENE	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2-CHLOROPHENOL	.37	mg/kg	U	N	Y	U						G178-05	23:09
				2-METHYLNAPHTHALENE	.37	mg/kg	U	N	Y	U						G178-05	23:09

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 19 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:								1	2	3	4		
<b>10144Q-01</b>																	
QM0009	SW8270C	SW3550	N	0	1	2-METHYLPHENOL	.37	mg/kg	U	N Y	U	G178-05	23:09				
						2-NITROANILINE	.71	mg/kg	U	N Y	U	G178-05	23:09				
						2-NITROPHENOL	.37	mg/kg	U	N Y	U	G178-05	23:09				
						3,3'-DICHLOROBENZIDINE	.71	mg/kg	U	N Y	U	G178-05	23:09				
						3-NITROANILINE	.71	mg/kg	U	N Y	U	G178-05	23:09				
						4,6-DINITRO-2-METHYLPHENOL	.71	mg/kg	U	N Y	U	G178-05	23:09				
						4-BROMOPHENYL-PHENYL ETHER	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-CHLOROANILINE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-CHLOROPHENYL-PHENYL ETHER	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-METHYLPHENOL	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-NITROANILINE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						4-NITROPHENOL	.71	mg/kg	U	N Y	U	G178-05	23:09				
						ACENAPHTHENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						ACENAPHTHYLENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						ANTHRACENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BENZO(A)ANTHRACENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BENZO(A)PYRENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BENZO(B)FLUORANTHENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BENZO(G,H,I)PERYLENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BENZO(K)FLUORANTHENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BIS(2-CHLOROETHYL)ETHER	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BIS(2-CHLOROISOPROPYL)ETHER	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BIS(2-ETHYLHEXYL)PHTHALATE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						BUTYLBENZYLPHthalate	.37	mg/kg	U	N Y	U	G178-05	23:09				
						CARBAZOLE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						CHRYSENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DI-N-BUTYLPHTHALATE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DI-N-OCTYLPHTHALATE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DIBENZO(A,H)ANTHRACENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DIBENZOFURAN	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DIETHYLPHthalate	.37	mg/kg	U	N Y	U	G178-05	23:09				
						DIMETHYLPHthalate	.37	mg/kg	U	N Y	U	G178-05	23:09				
						FLUORANTHENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						FLUORENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						HEXACHLOROBENZENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						HEXACHLOROBUTADIENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						HEXACHLOROCYCLOPENTADIENE	.37	mg/kg	U	N Y	U	G178-05	23:09				
						HEXACHLOROETHANE	.37	mg/kg	U	N Y	U	G178-05	23:09				

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 20 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:								1	2	3	4		
<b>10144Q-01</b>																	
QM0009	SW8270C	SW3550	N	0	1	INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N Y	U					G178-05	23:09
						ISOPHORONE	.37	mg/kg	U	N Y	U					G178-05	23:09
						N-NITROSO-DI-N-PROPYLAMINE	.37	mg/kg	U	N Y	U					G178-05	23:09
						N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N Y	U					G178-05	23:09
						NAPHTHALENE	.37	mg/kg	U	N Y	U					G178-05	23:09
						NITROBENZENE	.37	mg/kg	U	N Y	U					G178-05	23:09
						PENTACHLOROPHENOL	.71	mg/kg	U	N Y	U					G178-05	23:09
						PHENANTHRENE	.37	mg/kg	U	N Y	U					G178-05	23:09
						PHENOL	.37	mg/kg	U	N Y	U					G178-05	23:09
						PYRENE	.37	mg/kg	U	N Y	U					G178-05	23:09
QM0007	SW8260B	SW5035	N	0	1.2	1,1,1,2-TETRACHLOROETHANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,1,1-TRICHLOROETHANE	.0087	mg/kg	U	N Y	U	U				G178-03	21:25
						1,1,2,2-TETRACHLOROETHANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,1,2-TRICHLOROETHANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,1-DICHLOROETHANE	.0087	mg/kg	U	N Y	U	U				G178-03	21:25
						1,1-DICHLOROETHENE	.0087	mg/kg	U	N Y	U	U				G178-03	21:25
						1,1-DICHLOROPROPENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2,3-TRICHLOROBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2,3-TRICHLOROPROPANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2,4-TRICHLOROBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2,4-TRIMETHYLBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2-DIBROMO-3-CHLOROPROPANE	.017	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2-DIBROMOETHANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2-DICHLOROBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2-DICHLOROETHANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,2-DICHLOROPROPANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,3,5-TRIMETHYLBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,3-DICHLOROBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,3-DICHLOROPROPANE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						1,4-DICHLOROBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						2,2-DICHLOROPROPANE	.0087	mg/kg	U	N Y	U	U				G178-03	21:25
						2-BUTANONE	.029	mg/kg	J	Y Y	P	J	15			G178-03	21:25
						2-CHLOROTOLUENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						2-HEXANONE	.035	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						4-CHLOROTOLUENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						4-METHYL-2-PENTANONE	.035	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						ACETONE	.63	mg/kg		Y Y	P	J	04A 05A			G178-03	21:25
						BENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						BROMOBENZENE	.0087	mg/kg	U	N Y	U	UJ	10A			G178-03	21:25
						BROMOCHLOROMETHANE	.0087	mg/kg	U	N Y	U	U				G178-03	21:25

# Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 15, 2003

Page: 21 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qfr:	Hit Use	BCF	Val Qfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX	Dil:								1	2	3	4		
<b>10144Q-01</b>																	
QM0007	SW8260B	SW5035	N	0	1.2	BROMODICHLOROMETHANE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						BROMOFORM	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						BROMOMETHANE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						CARBON DISULFIDE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						CARBON TETRACHLORIDE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						CHLOROBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						CHLOROETHANE	.017	mg/kg	U	N Y U	U					G178-03	21:25
						CHLOROFORM	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						CHLOROMETHANE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						CIS-1,2-DICHLOROETHENE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						CIS-1,3-DICHLOROPROPENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						DIBROMOCHLOROMETHANE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						DIBROMOMETHANE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						DICHLORODIFLUOROMETHANE	.017	mg/kg	U	N Y U	U					G178-03	21:25
						ETHYLBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						HEXAChLOROBUTADIENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						ISOPROPYL BENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						M/P-XYLENES	.017	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						METHYLENE CHLORIDE	.017	mg/kg	U	N Y U	U					G178-03	21:25
						N-BUTYLBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						N-PROPYLBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						NAPHTHALENE	.017	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						O-XYLENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						P-ISOPROPYLtolUENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						SEC-BUTYLBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						STYRENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TERT-BUTYLBENZENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TETRACHLOROETHENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TOLUENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TRANS-1,2-DICHLOROETHENE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						TRANS-1,3-DICHLOROPROPENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TRICHLOROETHENE	.0087	mg/kg	U	N Y U	UJ	10A				G178-03	21:25
						TRICHLOROFUOROMETHANE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
						VINYL CHLORIDE	.0087	mg/kg	U	N Y U	U					G178-03	21:25
SW8260B	SW5035	N	1	1.2		1,1,1,2-TETRACHLOROETHANE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01
						1,1,1-TRICHLOROETHANE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01
						1,1,2,2-TETRACHLOROETHANE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01
						1,1,2-TRICHLOROETHANE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01
						1,1-DICHLOROETHANE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01
						1,1-DICHLOROETHENE	.0087	mg/kg	U	N N U	R	16				G178-03R	05:01

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 22 of 41

Sample Number:	Analytical/Extraction Method:				Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3	4																
<b>10144Q-01</b>																				
QM0007	SW8260B	SW5035	N	1	1.2	1,1-DICHLOROPROPENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2,3-TRICHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2,3-TRICHLOROPROPANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2,4-TRICHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2,4-TRIMETHYLBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2-DIBROMO-3-CHLOROPROPANE	.017	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2-DIBROMOETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2-DICHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2-DICHLOROETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,2-DICHLOROPROPANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,3,5-TRIMETHYLBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,3-DICHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,3-DICHLOROPROPANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						1,4-DICHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						2,2-DICHLOROPROPANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						2-BUTANONE	.13	mg/kg	Y	N	P	R	16					G178-03R	05:01	
						2-CHLOROTOLUENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						2-HEXANONE	.035	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						4-CHLOROTOLUENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						4-METHYL-2-PENTANONE	.035	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						ACETONE	1.9	mg/kg	E	Y	N	P	R	16					G178-03R	05:01
						BENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						BROMOBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						BROMOCHLOROMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						BROMODICHLOROMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						BROMOFORM	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						BROMOMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CARBON DISULFIDE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CARBON TETRACHLORIDE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CHLOROBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CHLOROETHANE	.017	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CHLOROFORM	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CHLOROMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CIS-1,2-DICHLOROETHENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						CIS-1,3-DICHLOROPROPENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						DIBROMOCHLOROMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						DIBROMOMETHANE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						DICHLORODIFLUOROMETHANE	.017	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						ETHYLBENZENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01
						HEXAChLOROBUTADIENE	.0087	mg/kg	U	N	N	U	R	16					G178-03R	05:01

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 23 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-01</b>																		
QM0007	SW8260B	SW5035	N 1 1.2		ISOPROPYL BENZENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					M/P-XYLENES	.017	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					METHYLENE CHLORIDE	.017	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					N-BUTYLBENZENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					N-PROPYLBENZENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					NAPHTHALENE	.017	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					O-XYLENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					P-ISOPROPYL TOLUENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					SEC-BUTYLBENZENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					STYRENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TERT-BUTYLBENZENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TETRACHLOROETHENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TOLUENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TRANS-1,2-DICHLOROETHENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TRANS-1,3-DICHLOROPROPENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TRICHLOROETHENE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					TRICHLOROFLUOROMETHANE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
					VINYL CHLORIDE	.0087	mg/kg	U	N N	U	R	16		G178-03R		05:01		
QM0008	SW8260B	SW5035	N 0 1.1		1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1-DICHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1-DICHLOROETHENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,1-DICHLOROPROPENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2-DIBROMOETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2-DICHLOROBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2-DICHLOROETHANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,3-DICHLOROBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,3-DICHLOROPROPANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					1,4-DICHLOROBENZENE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					2,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y	U	U			G178-04		22:02		
					2-BUTANONE	.011	mg/kg	J	Y	Y	P	J		15			G178-04	22:02

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 24 of 41

Sample Number:	Analytical/Extraction Method:				Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3	4															
<b>10144Q-01</b>																			
QM0008	SW8260B	SW5035	N	0	1.1	2-CHLOROTOLUENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						2-HEXANONE	.025	mg/kg	U	N	Y	U	U					G178-04	22:02
						4-CHLOROTOLUENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						4-METHYL-2-PENTANONE	.025	mg/kg	U	N	Y	U	U					G178-04	22:02
						ACETONE	.19	mg/kg		Y	Y	P	J	04A	05A			G178-04	22:02
						BENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						BROMOBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						BROMOCHLOROMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						BROMODICHLOROMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						BROMOFORM	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						BROMOMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CARBON DISULFIDE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CARBON TETRACHLORIDE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CHLOROBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					G178-04	22:02
						CHLOROFORM	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CHLOROMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						DIBROMOCHLOROMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						DIBROMOMETHANE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					G178-04	22:02
						ETHYLBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						HEXAChLOROBUTADIENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						ISOPROPYL BENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						M/P-XYLENES	.012	mg/kg	U	N	Y	U	U					G178-04	22:02
						METHYLENE CHLORIDE	.012	mg/kg	U	N	Y	U	U					G178-04	22:02
						N-BUTYLBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						N-PROPYLBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						NAPHTHALENE	.012	mg/kg	U	N	Y	U	U					G178-04	22:02
						O-XYLENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						P-ISOPROPYL TOLUENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						SEC-BUTYLBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						STYRENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TERT-BUTYLBENZENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TETRAChLOROETHENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TOLUENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02
						TRICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					G178-04	22:02

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 25 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-01</b>																		
QM0008	SW8260B	SW5035	N 0 1.1		TRICHLOROFLUOROMETHANE	.0062	mg/kg	U	N Y	U	U						G178-04	22:02
					VINYL CHLORIDE	.0062	mg/kg	U	N Y	U	U						G178-04	22:02
QM0009	SW8260B	SW5035	N 0 1.0		1,1,1,2-TETRACHLOROETHANE	.0056	mg/kg	U	N Y		U						G178-05	22:40
					1,1,1-TRICHLOROETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,1,2,2-TETRACHLOROETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,1,2-TRICHLOROETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,1-DICHLOROETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,1-DICHLOROETHENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,1-DICHLOROPROPENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2,3-TRICHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2,3-TRICHLOROPROPANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2,4-TRICHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2,4-TRIMETHYLBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N Y		U					G178-05	22:40	
					1,2-DIBROMOETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2-DICHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2-DICHLOROETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,2-DICHLOROPROPANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,3,5-TRIMETHYLBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,3-DICHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,3-DICHLOROPROPANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					1,4-DICHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					2,2-DICHLOROPROPANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					2-BUTANONE	.011	mg/kg	J	Y Y	J				15		G178-05	22:40	
					2-CHLOROTOLUENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					2-HEXANONE	.023	mg/kg	U	N Y		U					G178-05	22:40	
					4-CHLOROTOLUENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y		U					G178-05	22:40	
					ACETONE	.17	mg/kg		Y Y	J				04A 05A		G178-05	22:40	
					BENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					BROMOBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					BROMOCHLOROMETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					BROMODICHLOROMETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					BROMOFORM	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					BROMOMETHANE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					CARBON DISULFIDE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					CARBON TETRACHLORIDE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					CHLOROBENZENE	.0056	mg/kg	U	N Y		U					G178-05	22:40	
					CHLOROETHANE	.011	mg/kg	U	N Y		U					G178-05	22:40	
					CHLOROFORM	.0056	mg/kg	U	N Y		U					G178-05	22:40	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 26 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfrc:	Hit Use	BCF	Val Qlfrc	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-01</b>																		
QM0009	SW8260B	SW5035	N 0 1.0		CHLOROMETHANE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					CIS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					CIS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					DIBROMOCHLOROMETHANE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					DIBROMOMETHANE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y	U			G178-05					22:40
					ETHYLBENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					HEXACHLOROBUTADIENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					ISOPROPYL BENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					M/P-XYLENES	.011	mg/kg	U	N Y	U			G178-05					22:40
					METHYLENE CHLORIDE	.011	mg/kg	U	N Y	U			G178-05					22:40
					N-BUTYLBENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					N-PROPYLBENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					NAPHTHALENE	.011	mg/kg	U	N Y	U			G178-05					22:40
					O-XYLENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					P-ISOPROPYL TOLUENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					SEC-BUTYLBENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					STYRENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TERT-BUTYLBENZENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TETRACHLOROETHENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TOLUENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TRANS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TRANS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TRICHLOROETHENE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					TRICHLOROFUOROMETHANE	.0056	mg/kg	U	N Y	U			G178-05					22:40
					VINYL CHLORIDE	.0056	mg/kg	U	N Y	U			G178-05					22:40
<b>10144Q-02</b>																		
QM0016	SW8151A	METHOD	N 0 1		2,4,5-T	.012	mg/kg	U	N Y	U	U		02I013-01					00:16
					2,4,5-TP(SILVEX)	.012	mg/kg	U	N Y	U	U		02I013-01					00:16
					2,4-D	.012	mg/kg	U	N Y	U	U		02I013-01					00:16
					2,4-DB	.025	mg/kg	U	N Y	U	U		02I013-01					00:16
					DALAPON	.025	mg/kg	U	N Y	U	U		02I013-01					00:16
					DICAMBA	.025	mg/kg	U	N Y	U	U		02I013-01					00:16
					DICHLOROPROP	.012	mg/kg	U	N Y	U	U		02I013-01					00:16
					DINOSEB	.012	mg/kg	U	N Y	U	U		02I013-01					00:16
					MCPA	2.5	mg/kg	U	N Y	U	U		02I013-01					00:16
					MCPP	2.5	mg/kg	U	N Y	U	U		02I013-01					00:16
QM0017	SW8151A	METHOD	N 0 1		2,4,5-T	.012	mg/kg	U	N Y	U	U		02I013-02					00:45
					2,4,5-TP(SILVEX)	.012	mg/kg	U	N Y	U	U		02I013-02					00:45
					2,4-D	.012	mg/kg	U	N Y	U	U		02I013-02					00:45

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 27 of 41

Sample Number:	Analytical/Extraction Method:	Fit REX Dil:	Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
											1	2	3	4			
<b>10144Q-02</b>																	
QM0017	SW8151A	METHOD N 0 1	2,4-DB	.025	mg/kg	U	N Y	U								02I013-02	00:45
			DALAPON	.025	mg/kg	U	N Y	U								02I013-02	00:45
			DICAMBA	.025	mg/kg	U	N Y	U								02I013-02	00:45
			DICHLOROPROP	.012	mg/kg	U	N Y	U								02I013-02	00:45
			DINOSEB	.012	mg/kg	U	N Y	U								02I013-02	00:45
			MCPCA	2.5	mg/kg	U	N Y	U								02I013-02	00:45
			MCPP	2.5	mg/kg	U	N Y	U								02I013-02	00:45
QM0016	SW8081A	SW3550 N 0 1	4,4'-DDD	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			4,4'-DDE	.0015	mg/kg	J	Y Y	P	J							02I013-01	19:09
			4,4'-DDT	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			ALDRIN	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			ALPHA-BHC	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			ALPHA-CHLORDANE	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			BETA-BHC	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			DELTA-BHC	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			DIELDRIN	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			ENDOSULFAN I	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			ENDOSULFAN II	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			ENDOSULFAN SULFATE	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			ENDRIN	.0063	mg/kg		Y Y	P	J							02I013-01	19:09
			ENDRIN ALDEHYDE	.0049	mg/kg	U	N Y	U	U							02I013-01	19:09
			ENDRIN KETONE	.0049	mg/kg	U	N Y	U	UJ							02I013-01	19:09
			GAMMA-BHC (LINDANE)	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			GAMMA-CHLORDANE	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			HEPTACHLOR	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			HEPTACHLOR EPOXIDE	.0025	mg/kg	U	N Y	U	U							02I013-01	19:09
			METHOXYCHLOR	.025	mg/kg	U	N Y	U	U							02I013-01	19:09
			TOXAPHENE	.049	mg/kg	U	N Y	U	U							02I013-01	19:09
QM0017	SW8081A	SW3550 N 0 1	4,4'-DDD	.005	mg/kg	U	N Y	U								02I013-02	19:34
			4,4'-DDE	.005	mg/kg	U	N Y	U								02I013-02	19:34
			4,4'-DDT	.005	mg/kg	U	N Y	U								02I013-02	19:34
			ALDRIN	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			ALPHA-BHC	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			ALPHA-CHLORDANE	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			BETA-BHC	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			DELTA-BHC	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			DIELDRIN	.005	mg/kg	U	N Y	U								02I013-02	19:34
			ENDOSULFAN I	.0025	mg/kg	U	N Y	U								02I013-02	19:34
			ENDOSULFAN II	.005	mg/kg	U	N Y	U								02I013-02	19:34
			ENDOSULFAN SULFATE	.005	mg/kg	U	N Y	U								02I013-02	19:34

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 28 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-02</b>																		
QM0017	SW8081A	SW3550	N 0 1		ENDRIN	.0047	mg/kg	J	Y Y	J		15	18				02I013-02	19:34
					ENDRIN ALDEHYDE	.005	mg/kg	U	N Y	U						02I013-02	19:34	
					ENDRIN KETONE	.005	mg/kg	U	N Y	UJ		05B				02I013-02	19:34	
					GAMMA-BHC (LINDANE)	.0025	mg/kg	U	N Y	U						02I013-02	19:34	
					GAMMA-CHLORDANE	.0025	mg/kg	U	N Y	U						02I013-02	19:34	
					HEPTACHLOR	.0025	mg/kg	U	N Y	U						02I013-02	19:34	
					HEPTACHLOR EPOXIDE	.0025	mg/kg	U	N Y	U						02I013-02	19:34	
					METHOXYCHLOR	.025	mg/kg	U	N Y	U						02I013-02	19:34	
					TOXAPHENE	.05	mg/kg	U	N Y	U						02I013-02	19:34	
QM0016	SW6010B	SW3050	N 0 1		ALUMINUM	11500	mg/kg		Y Y P							02I013-01	21:53	
					ANTIMONY	12.3	mg/kg	U	N Y U	U						02I013-01	21:53	
					ARSENIC	3.17	mg/kg		Y Y P						02I013-01	18:21		
					BARIUM	135	mg/kg		Y Y P						02I013-01	21:53		
					BERYLLIUM	.918	mg/kg	J	Y Y P	J		15			02I013-01	21:53		
					CADMIUM	1.23	mg/kg	U	N Y U	U					02I013-01	21:53		
					CALCIUM	550	mg/kg		Y Y P						02I013-01	21:53		
					CHROMIUM	11.8	mg/kg		Y Y P						02I013-01	21:53		
					COBALT	5.79	mg/kg		Y Y P						02I013-01	21:53		
					COPPER	35.2	mg/kg		Y Y P						02I013-01	21:53		
					IRON	14000	mg/kg		Y Y P						02I013-01	21:53		
					LEAD	164	mg/kg		Y Y P						02I013-01	18:21		
					MAGNESIUM	481	mg/kg		Y Y P						02I013-01	21:53		
					MANGANESE	699	mg/kg		Y Y P						02I013-01	21:53		
					NICKEL	5.06	mg/kg		Y Y P						02I013-01	21:53		
					POTASSIUM	445	mg/kg	J	Y Y F	B		06B	15	17	02I013-01	21:53		
					SELENIUM	1.29	mg/kg		Y Y P						02I013-01	18:21		
					SILVER	2.45	mg/kg	U	N Y U	U					02I013-01	21:53		
					SODIUM	23.5	mg/kg	J	Y Y P	J		15			02I013-01	21:53		
					THALLIUM	2.45	mg/kg	U	N Y U	U					02I013-01	18:21		
					VANADIUM	18.6	mg/kg		Y Y P						02I013-01	21:53		
					ZINC	18.8	mg/kg		Y Y P						02I013-01	21:53		
	SW7471A	TOTAL	N 0 1		MERCURY	.0743	mg/kg	J	Y Y P	J		15				02I013-01	15:03	
QM0017	SW6010B	SW3050	N 0 1		ALUMINUM	11500	mg/kg		Y Y							02I013-02	21:57	
					ANTIMONY	12.5	mg/kg	U	N Y	U					02I013-02	21:57		
					ARSENIC	4.49	mg/kg		Y Y						02I013-02	18:27		
					BARIUM	137	mg/kg		Y Y						02I013-02	21:57		
					BERYLLIUM	1.11	mg/kg	J	Y Y	J		15			02I013-02	21:57		
					CADMIUM	1.25	mg/kg	U	N Y	U					02I013-02	21:57		
					CALCIUM	585	mg/kg		Y Y						02I013-02	21:57		
					CHROMIUM	14	mg/kg		Y Y						02I013-02	21:57		

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 29 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-02</b>																		
QM0017	SW6010B	SW3050	N 0 1		COBALT	6.22	mg/kg		Y Y								02I013-02	21:57
					COPPER	37.2	mg/kg		Y Y								02I013-02	21:57
					IRON	21700	mg/kg		Y Y								02I013-02	21:57
					LEAD	168	mg/kg		Y Y								02I013-02	18:27
					MAGNESIUM	490	mg/kg		Y Y								02I013-02	21:57
					MANGANESE	694	mg/kg		Y Y								02I013-02	21:57
					NICKEL	4.9	mg/kg		Y Y								02I013-02	21:57
					POTASSIUM	873	mg/kg		Y Y	J			17				02I013-02	21:57
					SELENIUM	1.62	mg/kg		Y Y								02I013-02	18:27
					SILVER	2.5	mg/kg	U	N Y	U							02I013-02	21:57
					SODIUM	24	mg/kg	J	Y Y	J			15				02I013-02	21:57
					THALLIUM	2.5	mg/kg	U	N Y	U							02I013-02	18:27
					VANADIUM	18.4	mg/kg		Y Y								02I013-02	21:57
					ZINC	19.1	mg/kg		Y Y								02I013-02	21:57
	SW7471A	TOTAL	N 0 1		MERCURY	.0756	mg/kg	J	Y Y	J			15				02I013-02	15:05
QM0016	SW8330	METHOD	N 0 1		1,3,5-TNB	.4	mg/kg	U	N Y	U	U						02I013-01	18:27
					1,3-DNB	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					2,4,6-TNT	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					2,4-DNT	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					2,6-DNT	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					2-AM-4,6-DNT	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					2-NITROTOLUENE	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					3-NITROTOLUENE	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					4-AM-2,6-DNT	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					4-NITROTOLUENE	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					HMX	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					NITROBENZENE	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					RDX	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
					TETRYL	.4	mg/kg	U	N Y	U	U					02I013-01	18:27	
QM0017	SW8330	METHOD	N 0 1		1,3,5-TNB	.4	mg/kg	U	N Y	U							02I013-02	18:56
					1,3-DNB	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					2,4,6-TNT	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					2,4-DNT	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					2,6-DNT	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					2-AM-4,6-DNT	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					2-NITROTOLUENE	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					3-NITROTOLUENE	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					4-AM-2,6-DNT	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					4-NITROTOLUENE	.4	mg/kg	U	N Y	U						02I013-02	18:56	
					HMX	.4	mg/kg	U	N Y	U						02I013-02	18:56	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 30 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-02</b>																		
QM0017	SW8330	METHOD	N 0 1		NITROBENZENE	.4	mg/kg	U	N Y		U						02I013-02	18:56
					RDX	.4	mg/kg	U	N Y		U					02I013-02	18:56	
					TETRYL	.4	mg/kg	U	N Y		U					02I013-02	18:56	
QM0016	SW8141A	SW3545	N 0 1		AZINPHOS-METHYL	.04	mg/kg	U	N Y	U	U					02I013-01	19:28	
					BOLSTAR	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					CHLORPYRIFOS	.082	mg/kg	U	N Y	U	U				02I013-01	19:28		
					COUMAPHOS	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					DEMETON (TOTAL)	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					DIAZINON	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					DICHLORVOS	.082	mg/kg	U	N Y	U	UJ			11A 11B	02I013-01	19:28		
					DIMETHOATE	.082	mg/kg	U	N Y	U	U				02I013-01	19:28		
					DISULFOTON	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					ETHOPROP	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					FAMPHUR	.082	mg/kg	U	N Y	U	U				02I013-01	19:28		
					FENSULFOOTHION	.082	mg/kg	U	N Y	U	U				02I013-01	19:28		
					FENTHION	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					MALATHION	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					MERPHOS	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					METHYL PARATHION	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					MEVINPHOS	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					NALED	.04	mg/kg	U	N Y	U	R			11A 11B	02I013-01	19:28		
					PARATHION	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					PHORATE	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					RONNEL	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					STIROPHOS	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					SULFOTEPP	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					THIONAZIN	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					TOKUTHION	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
					TRICHLORONATE	.04	mg/kg	U	N Y	U	U				02I013-01	19:28		
QM0017	SW8141A	SW3545	N 0 1		AZINPHOS-METHYL	.041	mg/kg	U	N Y		U					02I013-02	20:00	
					BOLSTAR	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					CHLORPYRIFOS	.084	mg/kg	U	N Y		U				02I013-02	20:00		
					COUMAPHOS	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					DEMETON (TOTAL)	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					DIAZINON	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					DICHLORVOS	.084	mg/kg	U	N Y		UJ		11A 11B		02I013-02	20:00		
					DIMETHOATE	.084	mg/kg	U	N Y		U				02I013-02	20:00		
					DISULFOTON	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					ETHOPROP	.041	mg/kg	U	N Y		U				02I013-02	20:00		
					FAMPHUR	.084	mg/kg	U	N Y		U				02I013-02	20:00		

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 31 of 41

Sample Number:	Analytical/Extraction			Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Method:	Flt	REX Dil:									1	2	3	4		
<b>10144Q-02</b>																	
QM0017	SW8141A	SW3545	N 0 1	FENSULFOOTHION	.084	mg/kg	U	N Y	U	U						02I013-02	20:00
				FENTHION	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				MALATHION	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				MERPHOS	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				METHYL PARATHION	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				MEVINPHOS	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				NALED	.041	mg/kg	U	N Y	R	U	11A 11B					02I013-02	20:00
				PARATHION	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				PHORATE	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				RONNEL	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				STIROPHOS	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				SULFOTEPP	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				THIONAZIN	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				TOKUTHION	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
				TRICHLORONATE	.041	mg/kg	U	N Y	U	U						02I013-02	20:00
QM0016	SW8270C	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				1,2-DICHLOROBENZENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				1,3-DICHLOROBENZENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				1,4-DICHLOROBENZENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4,5-TRICHLOROPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4,6-TRICHLOROPHENOL	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4-DICHLOROPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4-DIMETHYLPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4-DINITROPHENOL	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,4-DINITROTOLUENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2,6-DINITROTOLUENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2-CHLORONAPHTHALENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2-CHLOROPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2-METHYLNAPHTHALENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2-METHYLPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				2-NITROANILINE	.77	mg/kg	U	N Y	U	UJ			05B			02I013-01	23:05
				2-NITROPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				3,3'-DICHLOROBENZIDINE	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				3-NITROANILINE	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				4,6-DINITRO-2-METHYLPHENOL	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-BROMOPHENYL-PHENYL ETHER	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-CHLORO-3-METHYLPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-CHLOROANILINE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-CHLOROPHENYL-PHENYL ETHER	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-METHYLPHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 32 of 41

Sample Number:	Analytical/Extraction Method:			Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-02</b>																	
QM0016	SW8270C	SW3550	N 0 1	4-NITROANILINE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				4-NITROPHENOL	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				ACENAPHTHENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				ACENAPHTHYLENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				ANTHRACENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BENZO(A)ANTHRACENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BENZO(A)PYRENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BENZO(B)FLUORANTHENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BENZO(G,H,I)PERYLENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BENZO(K)FLUORANTHENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BIS(2-CHLOROETHOXY)METHANE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BIS(2-CHLOROETHYL)ETHER	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BIS(2-CHLOROISOPROPYL)ETHER	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BIS(2-ETHYLHEXYL)PHTHALATE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				BUTYLBENZYLPHthalate	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				CARBAZOLE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				CHRYSENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DI-N-BUTYLPHTHALATE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DI-N-OCTYLPHTHALATE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DIBENZO(A,H)ANTHRACENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DIBENZOFURAN	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DIETHYLPHthalate	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				DIMETHYLPHthalate	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				FLUORANTHENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				FLUORENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				HEXAChlorobenzene	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				HEXAChlorobutadiene	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				HEXAChlorocyclopentadiene	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				HEXAChloroethane	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				INDENO(1,2,3-CD)PYRENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				ISOPHORONE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				N-NITROSO-DI-N-PROPYLAMINE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				N-NITROSODIPHENYLAMINE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				NAPHTHALENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				NITROBENZENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				PENTACHLOROPHENOL	.77	mg/kg	U	N Y	U	U						02I013-01	23:05
				PHENANTHRENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				PHENOL	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
				PYRENE	.4	mg/kg	U	N Y	U	U						02I013-01	23:05
QM0017	SW8270C	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.41	mg/kg	U	N Y		U						02I013-02	23:34

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 33 of 41

Sample Number:	Analytical/Extraction Method:			Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-02</b>																	
QM0017	SW8270C	SW3550	N 0 1	1,2-DICHLOROBENZENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				1,3-DICHLOROBENZENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				1,4-DICHLOROBENZENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2,4,5-TRICHLOROPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2,4,6-TRICHLOROPHENOL	.79	mg/kg	U	N Y		U						02I013-02	23:34
				2,4-DICHLOROPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2,4-DIMETHYLPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2,4-DINITROPHENOL	.79	mg/kg	U	N Y		U						02I013-02	23:34
				2,4-DINITROTOLUENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2,6-DINITROTOLUENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2-CHLORONAPHTHALENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2-CHLOROPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2-METHYLNAPHTHALENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2-METHYLPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				2-NITROANILINE	.79	mg/kg	U	N Y		UJ		05B				02I013-02	23:34
				2-NITROPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				3,3'-DICHLOROBENZIDINE	.79	mg/kg	U	N Y		U						02I013-02	23:34
				3-NITROANILINE	.79	mg/kg	U	N Y		U						02I013-02	23:34
				4,6-DINITRO-2-METHYLPHENOL	.79	mg/kg	U	N Y		U						02I013-02	23:34
				4-BROMOPHENYL-PHENYL ETHER	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-CHLORO-3-METHYLPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-CHLOROANILINE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-CHLOROPHENYL-PHENYL ETHER	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-METHYLPHENOL	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-NITROANILINE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				4-NITROPHENOL	.79	mg/kg	U	N Y		U						02I013-02	23:34
				ACENAPHTHENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				ACENAPHTHYLENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				ANTHRACENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BENZO(A)ANTHRACENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BENZO(A)PYRENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BENZO(B)FLUORANTHENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BENZO(G,H,I)PERYLENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BENZO(K)FLUORANTHENE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BIS(2-CHLOROETHOXY)METHANE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BIS(2-CHLOROETHYL)ETHER	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BIS(2-CHLOROISOPROPYL)ETHER	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BIS(2-ETHYLHEXYL)PHTHALATE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				BUTYLBENZYLPHTHALATE	.41	mg/kg	U	N Y		U						02I013-02	23:34
				CARBAZOLE	.41	mg/kg	U	N Y		U						02I013-02	23:34

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 34 of 41

Sample Number:	Analytical/Extraction Method: Flt REX Dil:				Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3	4														
<b>10144Q-02</b>																		
QM0017	SW8270C	SW3550	N	0	1	CHRYSENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DI-N-BUTYLPHthalATE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DI-N-OCTYLPHthalATE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DIBENZO(A,H)ANTHRACENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DIBENZOFURAN	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DIETHYLPHthalATE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						DIMETHYLPHthalATE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						FLUORANTHENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						FLUORENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						HEXACHLOROBENZENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						HEXACHLOROBUTADIENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						HEXACHLOROCYCLOPENTADIENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						HEXACHLOROETHANE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						INDENO(1,2,3-CD)PYRENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						ISOPHORONE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						N-NITROSO-DI-N-PROPYLAMINE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						N-NITROSODIPHENYLAMINE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						NAPHTHALENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						NITROBENZENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						PENTACHLOROPHENOL	.79	mg/kg	U	N Y	U						02I013-02	23:34
						PHENANTHRENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
						PHENOL	.41	mg/kg	U	N Y	U						02I013-02	23:34
						PYRENE	.41	mg/kg	U	N Y	U						02I013-02	23:34
QM0016	SW8260B	SW5035	N	0	1.1	1,1,1,2-TETRACHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1,1-TRICHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1,2,2-TETRACHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1,2-TRICHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1-DICHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1-DICHLOROETHENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,1-DICHLOROPROPENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2,3-TRICHLOROBENZENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2,3-TRICHLOROPROPANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2,4-TRICHLOROBENZENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2,4-TRIMETHYLBENZENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2-DIBROMOETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2-DICHLOROBENZENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2-DICHLOROETHANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,2-DICHLOROPROPANE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37
						1,3,5-TRIMETHYLBENZENE	.0067	mg/kg	U	N Y	U	U					02I013-01	02:37

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 35 of 41

Sample Number:	Analytical/Extraction Method:			Filt & EX Dil:	Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3										1	2	3	4			
<b>10144Q-02</b>																			
QM0016	SW8260B	SW5035	N	0	1.1	1,3-DICHLOROBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						1,3-DICHLOROPROPANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						1,4-DICHLOROBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						2,2-DICHLOROPROPANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						2-BUTANONE	.029	mg/kg		Y	Y	P					02I013-01	02:37	
						2-CHLOROTOLUENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						2-HEXANONE	.027	mg/kg	U	N	Y	U	U					02I013-01	02:37
						4-CHLOROTOLUENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						4-METHYL-2-PENTANONE	.027	mg/kg	U	N	Y	U	U					02I013-01	02:37
						ACETONE	.34	mg/kg		Y	Y	P					02I013-01	02:37	
						BENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						BROMOBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						BROMOCHLOROMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						BROMODICHLOROMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						BROMOFORM	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						BROMOMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CARBON DISULFIDE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CARBON TETRACHLORIDE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CHLOROBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CHLOROETHANE	.013	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CHLOROFORM	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CHLOROMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CIS-1,2-DICHLOROETHENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						CIS-1,3-DICHLOROPROPENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						DIBROMOCHLOROMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						DIBROMOMETHANE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					02I013-01	02:37
						ETHYLBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						HEXACHLOROBUTADIENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						ISOPROPYL BENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						M/P-XYLENES	.013	mg/kg	U	N	Y	U	U					02I013-01	02:37
						METHYLENE CHLORIDE	.013	mg/kg	U	N	Y	U	U					02I013-01	02:37
						N-BUTYLBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						N-PROPYLBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						NAPHTHALENE	.013	mg/kg	U	N	Y	U	U					02I013-01	02:37
						O-XYLENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						P-ISOPROPYL TOLUENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						SEC-BUTYLBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						STYRENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37
						TERT-BUTYLBENZENE	.0067	mg/kg	U	N	Y	U	U					02I013-01	02:37

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 36 of 41

Sample Number:	Analytical/Extraction				Result:	Units:	Qlfrc:	Hit Use	BCF	Val Qlfrc	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	Method:	Flt	REX	Dil:								1	2	3	4			
<b>10144Q-02</b>																		
QM0016	SW8260B	SW5035	N	0	1.1	TETRACHLOROETHENE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						TOLUENE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						TRANS-1,2-DICHLOROETHENE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						TRANS-1,3-DICHLOROPROPENE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						TRICHLOROETHENE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						TRICHLOROFLUOROMETHANE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
						VINYL CHLORIDE	.0067	mg/kg	U	N	Y	U	U				02I013-01	02:37
QM0017	SW8260B	SW5035	N	0	.91	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1-DICHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1-DICHLOROETHENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,1-DICHLOROPROPENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2-DIBROMOETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2-DICHLOROBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2-DICHLOROETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,3-DICHLOROBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,3-DICHLOROPROPANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						1,4-DICHLOROBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						2,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						2-BUTANONE	.033	mg/kg		Y	Y						02I013-02	03:14
						2-CHLOROTOLUENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						2-HEXANONE	.023	mg/kg	U	N	Y		U				02I013-02	03:14
						4-CHLOROTOLUENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y		U				02I013-02	03:14
						ACETONE	.46	mg/kg		Y	Y						02I013-02	03:14
						BENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						BROMOBENZENE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						BROMOCHLOROMETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						BROMODICHLOROMETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						BROMOFORM	.0057	mg/kg	U	N	Y		U				02I013-02	03:14
						BROMOMETHANE	.0057	mg/kg	U	N	Y		U				02I013-02	03:14

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 37 of 41

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10144Q-02</b>																
QM0017	SW8260B	SW5035	N 0 .91	CARBON DISULFIDE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CARBON TETRACHLORIDE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CHLOROBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CHLOROETHANE	.011	mg/kg	U	N Y	U						02I013-02	03:14
				CHLOROFORM	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CHLOROMETHANE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				DIBROMOCHLOROMETHANE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				DIBROMOMETHANE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y	U						02I013-02	03:14
				ETHYLBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				HEXACHLOROBUTADIENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				ISOPROPYL BENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				M/P-XYLENES	.011	mg/kg	U	N Y	U						02I013-02	03:14
				METHYLENE CHLORIDE	.011	mg/kg	U	N Y	U						02I013-02	03:14
				N-BUTYLBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				N-PROPYLBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				NAPHTHALENE	.011	mg/kg	U	N Y	U						02I013-02	03:14
				O-XYLENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				P-ISOPROPYLtolUENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				SEC-BUTYLBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				STYRENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TERT-BUTYLBENZENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TETRACHLOROETHENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TOLUENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TRICHLOROETHENE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				TRICHLOROFLUOROMETHANE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
				VINYL CHLORIDE	.0057	mg/kg	U	N Y	U						02I013-02	03:14
<b>10144Q-03</b>																
QM0012	SW6010B	SW3050	N 0 1	ALUMINUM	13900	mg/kg		Y Y	P						02I034-01	23:10
				ANTIMONY	12.5	mg/kg	U	N Y	U	U					02I034-01	23:10
				ARSENIC	3.3	mg/kg		Y Y	P						02I034-01	19:50
				BARIUM	255	mg/kg		Y Y	P						02I034-01	23:10
				BERYLLIUM	2.43	mg/kg		Y Y	P						02I034-01	23:10
				CADMIUM	1.25	mg/kg	U	N Y	U	U					02I034-01	23:10
				CALCIUM	686	mg/kg		Y Y	P						02I034-01	23:10
				CHROMIUM	7.98	mg/kg		Y Y	P						02I034-01	23:10

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 38 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3										1	2	3	4			
<b>10144Q-03</b>																			
QM0012	SW6010B	SW3050	N 0 1		COBALT	15.9	mg/kg		Y Y P								02I034-01	23:10	
					COPPER	19.1	mg/kg		Y Y P								02I034-01	23:10	
					IRON	14400	mg/kg		Y Y P								02I034-01	23:10	
					LEAD	187	mg/kg		Y Y P								02I034-01	19:50	
					MAGNESIUM	787	mg/kg		Y Y P								02I034-01	23:10	
					MANGANESE	1650	mg/kg		Y Y P								02I034-01	23:10	
					NICKEL	8.08	mg/kg		Y Y P								02I034-01	23:10	
					POTASSIUM	1530	mg/kg		Y Y P								02I034-01	23:10	
					SELENIUM	1.83	mg/kg		Y Y P								02I034-01	19:50	
					SILVER	2.5	mg/kg	U	N Y U U								02I034-01	23:10	
					SODIUM	36.6	mg/kg	J	Y Y P J						15		02I034-01	23:10	
					THALLIUM	2.5	mg/kg	U	N Y U U								02I034-01	19:50	
					VANADIUM	13.5	mg/kg		Y Y P								02I034-01	23:10	
					ZINC	22.1	mg/kg		Y Y P								02I034-01	23:10	
	SW7471A	TOTAL	N 0 1		MERCURY	.0807	mg/kg	J	Y Y P J						15		02I034-01	15:18	
QM0013	SW6010B	SW3050	N 0 1		ALUMINUM	12300	mg/kg		Y Y P									02I034-02	23:24
					ANTIMONY	14	mg/kg	U	N Y U U								02I034-02	23:24	
					ARSENIC	2.88	mg/kg		Y Y P								02I034-02	20:06	
					BARIUM	193	mg/kg		Y Y P								02I034-02	23:24	
					BERYLLIUM	1.52	mg/kg		Y Y P								02I034-02	23:24	
					CADMUM	1.4	mg/kg	U	N Y U U								02I034-02	23:24	
					CALCIUM	455	mg/kg		Y Y P								02I034-02	23:24	
					CHROMIUM	7.97	mg/kg		Y Y P								02I034-02	23:24	
					COBALT	13.8	mg/kg		Y Y P								02I034-02	23:24	
					COPPER	130	mg/kg		Y Y P								02I034-02	23:24	
					IRON	11100	mg/kg		Y Y P								02I034-02	23:24	
					LEAD	840	mg/kg		Y Y P								02I034-02	20:06	
					MAGNESIUM	699	mg/kg		Y Y P								02I034-02	23:24	
					MANGANESE	1400	mg/kg		Y Y P								02I034-02	23:24	
					NICKEL	6.02	mg/kg		Y Y P								02I034-02	23:24	
					POTASSIUM	1360	mg/kg		Y Y P								02I034-02	23:24	
					SELENIUM	1.7	mg/kg		Y Y P								02I034-02	20:06	
					SILVER	2.81	mg/kg	U	N Y U U								02I034-02	23:24	
					SODIUM	46.6	mg/kg	J	Y Y P J						15		02I034-02	23:24	
					THALLIUM	2.81	mg/kg	U	N Y U U								02I034-02	20:06	
					VANADIUM	12.7	mg/kg		Y Y P								02I034-02	23:24	
					ZINC	20.1	mg/kg		Y Y P								02I034-02	23:24	
	SW7471A	TOTAL	N 0 1		MERCURY	.0884	mg/kg	J	Y Y P J						15		02I034-02	15:20	
QM0014	SW6010B	SW3050	N 0 1		ALUMINUM	12300	mg/kg		Y Y								02I034-03	23:29	
					ANTIMONY	14.1	mg/kg	U	N Y								02I034-03	23:29	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 39 of 41

Sample Number:	Analytical/Extraction Method:			Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	Flt	REX	Dil:									1	2	3	4		
<b>10144Q-03</b>																	
QM0014	SW6010B	SW3050	N 0 1	ARSENIC	2.69	mg/kg		Y Y								02I034-03	20:12
				BARIUM	213	mg/kg		Y Y								02I034-03	23:29
				BERYLLIUM	1.56	mg/kg		Y Y								02I034-03	23:29
				CADMIUM	1.41	mg/kg	U	N Y		U						02I034-03	23:29
				CALCIUM	481	mg/kg		Y Y								02I034-03	23:29
				CHROMIUM	7.73	mg/kg		Y Y								02I034-03	23:29
				COBALT	10.8	mg/kg		Y Y								02I034-03	23:29
				COPPER	136	mg/kg		Y Y								02I034-03	23:29
				IRON	11700	mg/kg		Y Y								02I034-03	23:29
				LEAD	848	mg/kg		Y Y								02I034-03	20:12
				MAGNESIUM	701	mg/kg		Y Y								02I034-03	23:29
				MANGANESE	1250	mg/kg		Y Y								02I034-03	23:29
				NICKEL	5.04	mg/kg		Y Y								02I034-03	23:29
				POTASSIUM	1290	mg/kg		Y Y								02I034-03	23:29
				SELENIUM	1.83	mg/kg		Y Y								02I034-03	20:12
				SILVER	2.83	mg/kg	U	N Y		U						02I034-03	23:29
				SODIUM	34.3	mg/kg	J	Y Y		J		15				02I034-03	23:29
				THALLIUM	2.83	mg/kg	U	N Y		U						02I034-03	20:12
				VANADIUM	12.9	mg/kg		Y Y								02I034-03	23:29
				ZINC	19.8	mg/kg		Y Y								02I034-03	23:29
	SW7471A	TOTAL	N 0 1	MERCURY	.0917	mg/kg	J	Y Y		J		15				02I034-03	15:22
QM0015	SW6010B	SW3050	N 0 1	ALUMINUM	10000	mg/kg		Y Y	P							02I034-04	23:33
				ANTIMONY	10.9	mg/kg	U	N Y	U	U						02I034-04	23:33
				ARSENIC	3.08	mg/kg		Y Y	P							02I034-04	20:17
				BARIUM	100	mg/kg		Y Y	P							02I034-04	23:33
				BERYLLIUM	.566	mg/kg	J	Y Y	P	J		15				02I034-04	23:33
				CADMIUM	1.09	mg/kg	U	N Y	U	U						02I034-04	23:33
				CALCIUM	314	mg/kg		Y Y	P							02I034-04	23:33
				CHROMIUM	10.6	mg/kg		Y Y	P							02I034-04	23:33
				COBALT	3.36	mg/kg		Y Y	P							02I034-04	23:33
				COPPER	7.61	mg/kg		Y Y	P							02I034-04	23:33
				IRON	13800	mg/kg		Y Y	P							02I034-04	23:33
				LEAD	23.8	mg/kg		Y Y	P							02I034-04	20:17
				MAGNESIUM	479	mg/kg		Y Y	P							02I034-04	23:33
				MANGANESE	498	mg/kg		Y Y	P							02I034-04	23:33
				NICKEL	4.15	mg/kg		Y Y	P							02I034-04	23:33
				POTASSIUM	721	mg/kg		Y Y	P							02I034-04	23:33
				SELENIUM	1.22	mg/kg		Y Y	P							02I034-04	20:17
				SILVER	2.17	mg/kg	U	N Y	U	U						02I034-04	23:33
				SODIUM	20.8	mg/kg	J	Y Y	P	J		15				02I034-04	23:33

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 40 of 41

Sample Number:	Analytical/Extraction Method:				Fit REX Dil:	Parameter:	Result:	Units:	Qlfir:	Hit Use	BCF	Val Qlfir	Val Code:	Reason Codes				Lab Sample:	Analysis Time:		
	1	2	3	4																	
<b>10144Q-03</b>																					
QM0015	SW6010B	SW3050	N 0 1	THALLIUM			2.17	mg/kg	U	N Y	U	U							02I034-04	20:17	
				VANADIUM			14.8	mg/kg		Y Y	P								02I034-04	23:33	
				ZINC			15	mg/kg		Y Y	P								02I034-04	23:33	
QM0012	SW7471A	TOTAL	N 0 1	MERCURY			.0671	mg/kg	J	Y Y	P	J							02I034-04	15:25	
				1,3,5-TNB			.4	mg/kg	U	N Y	U	U								02I034-01	20:22
				1,3-DNB			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				2,4,6-TNT			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				2,4-DNT			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				2,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				2-AM-4,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				2-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				3-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				4-AM-2,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				4-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				HMX			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				NITROBENZENE			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				RDX			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
				TETRYL			.4	mg/kg	U	N Y	U	U							02I034-01	20:22	
QM0013	SW8330	METHOD	N 0 1	1,3,5-TNB			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				1,3-DNB			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				2,4,6-TNT			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				2,4-DNT			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				2,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				2-AM-4,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				2-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				3-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				4-AM-2,6-DNT			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				4-NITROTOLUENE			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				HMX			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				NITROBENZENE			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				RDX			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
				TETRYL			.4	mg/kg	U	N Y	U	U							02I034-02	20:51	
QM0014	SW8330	METHOD	N 0 1	1,3,5-TNB			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				1,3-DNB			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				2,4,6-TNT			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				2,4-DNT			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				2,6-DNT			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				2-AM-4,6-DNT			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				2-NITROTOLUENE			.4	mg/kg	U	N Y		U							02I034-03	22:17	
				3-NITROTOLUENE			.4	mg/kg	U	N Y		U							02I034-03	22:17	

# Validation Qualifier Data Entry Verification

Run Date: January 15, 2003

Fort McClellan

Page: 41 of 41

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10144Q-03</b>																		
QM0014	SW8330	METHOD	N	0	1	4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U					02I034-03	22:17
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U					02I034-03	22:17
						HMX	.4	mg/kg	U	N	Y	U					02I034-03	22:17
						NITROBENZENE	.4	mg/kg	U	N	Y	U					02I034-03	22:17
						RDX	.4	mg/kg	U	N	Y	U					02I034-03	22:17
						TETRYL	.4	mg/kg	U	N	Y	U					02I034-03	22:17
QM0015	SW8330	METHOD	N	0	1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						1,3-DNB	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						2,4,6-TNT	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						2,4-DNT	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						2,6-DNT	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						HMX	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						NITROBENZENE	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						RDX	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46
						TETRYL	.4	mg/kg	U	N	Y	U	U				02I034-04	22:46

**Quality Assurance Report**  
**Site Investigation at Impact Area, Choccolocco Corridor, Parcel 147Q-X**  
**Fort McClellan, Alabama**

---

### **1.0 Overview**

Nine soil samples and one groundwater sample were collected in support of the investigation at Fort McClellan (FTMC) Parcel HR-147Q, Impact Area, Choccolocco Corridor. All samples were submitted to EMAX Laboratories, Inc. for analysis. QC samples consisted of the following types and quantities: 1 field duplicate (FD), 1 matrix spike/matrix spike duplicate (MS/MSD) pair and 3 equipment rinsates (ER). An analytical summary table cross-referencing sample location, sample number, and analytical suite is presented in Attachment A.

One hundred (100) percent of samples were validated and reviewed in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Evaluating Inorganic Data Review (EPA, February 1994) and USEPA Contract Laboratory Program National Functional Guidelines for Organic Review (EPA, October 1999) for all areas except blanks.

Region III Laboratory Data Validation Functional Guidelines for Inorganic Analyses (EPA, April 1993) and Region III National Functional Guidelines for Organic Data Review (EPA, June 1992) were applied to the areas associated with blank contamination. Data qualifiers assigned to results were based on guidance outlined in the referenced documents and the Installation-Wide Sampling and Analysis Plan (IT, March 2000) for FTMC. Table 1.0-1 and Table 1.0-2 define laboratory data and validation data qualifiers assigned to analytical results, respectively.

**Table 1.0-1**  
**Laboratory Data Qualifier Definitions**

Data Qualifier	Laboratory Data Qualifier Definition
B	Analyte detected in method blank at concentration greater than the reporting limit (and greater than zero).
C	Confirming data obtained using second GC column or GC/MS.
E	Analyte concentration exceeded calibration range.
I	Analyte identification suspect. See narrative for explanation.
J	Result is less than or equal to specified reporting limit but greater than the method detection limit (MDL).
P	Analyte not confirmed. Results from primary and secondary GC columns differ by greater than 10 percent
S	Analyte concentration obtained using Method of Standard Additions (MSA).
U	Not detected. The value represented indicates the reporting limit for the analysis.
D	Sample analyzed as a dilution. The result reported has been calculated using the appropriate dilution factor.
No Code	Confirmed identification.

**Table 1.0-2**  
**Validation Data Qualifier Definitions**

<b>Validation Qualifier</b>	<b>Validation Data Qualifier Definition</b>
U	Not detected. The associated number indicates approximate sample concentration necessary to be detected.
No Code	Confirmed identification
B	Not detected substantially above the level reported in laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
N	Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
J	Analyte present. Reported value may not be accurate or precise. Considered an estimate.
NJ	Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

The Data Validation Summary Report is presented in Attachment B.

## **2.0 Summary**

Data were evaluated to verify compliance with precision, accuracy, representativeness, comparability, completeness, and sensitivity. To verify that project data quality objectives (DQO) were met, laboratory analytical results and data packages were examined for compliance with SW846 8330 and 6010B/7000 Series quality control (QC) method criteria. Laboratory nonconformances and discrepancies in the data were also examined to determine their impact on the data. The results of this review are presented in the following sections.

### **2.1 Sample Receipt and Analytical Holding Times**

All sample results generated by the laboratory during this investigation have been reviewed with respect to condition of samples as received by the laboratory, chain-of-custody, and analysis holding times. All coolers were received by EMAX in good condition under proper chain-of-custody.

All extraction and analytical holding times were met.

### **2.2 Rejected Data**

No data was rejected ("R" qualified) by the laboratory or through the validation process.

### **2.3 Blank Results**

Descriptions of the type of blank samples which were collected, processed, and evaluated for background and/or process contamination during this sampling are as follows:

- Equipment rinsates (ER) are samples of analyte-free deionized water poured into, over, or pumped through the sampling device, collected in a sample container,

and transported to the laboratory for analysis. Equipment rinsates are used to assess the effectiveness of equipment decontamination procedures.

- Method blanks (MB) are used in the laboratory to assess and document any possible contamination resulting from the analytical process. A method blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank shall be carried through the complete sample preparation and analytical procedure.
- Initial and continuing calibration blanks (ICB and CCB) are instrument blanks consisting of an analyte-free matrix. ICBs and CCBs are analyzed to verify the analysis system is free of contamination and are analyzed immediately after the initial and continuing calibrations are performed.

When target compounds are detected in equipment rinsates, method blanks and/or initial/continuing calibration blanks there is increased uncertainty regarding the positive identification of the same constituents in field samples. When this occurs, detections more than five times the associated blank concentration are assumed to be positive detections in field samples. Because of the added uncertainty for certain "common" laboratory contaminants such as acetone, chloroform, toluene, and various phthalates, these constituents are not assumed present until sample concentrations exceed ten times the associated blank value. This is referred to as the 5X/10X rule.

Field sample concentrations were evaluated to determine if the sample results could have been biased by the presence of any contamination measured in equipment rinsate blanks, method blanks and/or initial/continuing calibration blanks. Sample data affected by blank contamination are summarized in Table 2.3-1.

**Table 2.3-1**  
**Summary of Blank Contamination**

Sample Delivery Group	Sample Number	Contaminant	Action
10147Q-01	QN0004	Selenium	Selenium result for sample QN0004 was "B" qualified due to ICB/CCB contamination.
10147Q-02	QN3002	Aluminum	Aluminum result for sample QN3002 was "B" qualified due to ER contamination.

## **2.4 Analytical Precision**

Precision is defined as a measurement of mutual agreement among individual measurements of the same property, usually under "prescribed similar conditions." Analytical precision is calculated as relative percent difference (%RPD) based on the following formula:

$$\% \text{RPD} = \left| \frac{(A-B)}{(A+B)/2} \right| \times 100$$

where:

$$\begin{aligned}\%RPD &= \text{Relative Percent Difference} \\ A &= \text{original result} \\ B &= \text{duplicate result}\end{aligned}$$

A high RPD between an original sample and its field duplicate may be attributable to the difference in sample matrix or distribution of the contaminant within the sample, rather than the precision of the collection process. Also, when "estimated" results are reported, there is a potential for increased variability between the primary and duplicate sample results. This occurs because, at low concentrations, the relative difference in results is magnified by the RPD calculation even though the results are comparable in absolute terms. There is also increased uncertainty in the results as the lower limit of detection is approached, due to decreasing analytical accuracy. The RPD calculation cannot be performed in cases where non-detected results are reported with corresponding samples that contain detectable concentrations.

Overall sampling and analysis precision for this task was assessed using field duplicate (FD) samples. Laboratory precision was assessed by laboratory control sample/laboratory control sample duplicate (LCS/LCSD) and matrix spike/matrix spike duplicate (MS/MSD) recoveries. Results indicate that an acceptable analytical precision was achieved. Table 2.4-1 lists precision acceptance criteria for LCS/LCSD, MS/MSD organic and inorganic analyses and field duplicate comparisons.

**Table 2.4-1**  
**Precision Acceptance Criteria**

Field/Laboratory QC Type	Matrix	
	Aqueous	Soil
Field Duplicate (Both Organic & Inorganic)	RPD < 35%	RPD < 50%
Nitroaromatic and Nitramine Explosives LCS/LCSD and MS/MSD	Refer to Table 8-1 of FTMC "Installation Wide Sample and Analysis Plan"	Refer to Table 8-1 of FTMC "Installation Wide Sample and Analysis Plan"
TAL Metals LCS/LCSD and MS/MSD	RPD < 20%	RPD < 20%

## **2.5 Analytical Accuracy Assessment**

Accuracy is a measure of the degree of agreement of a result against an accepted reference or true value. Accuracy is expressed as a percent recovery (%R) calculated by the ratio of the measurement and accepted true value as shown in the following equation:

$$\%R = (|X_s - X_u| / K) \times 100$$

where:

$X_s$  = measured value of the spiked sample  
 $X_u$  = measured value of the unspiked sample  
K = known amount of the spike in the sample

Surrogate recoveries, MS/MSD and LCS/LCSD, were used to measure analytical accuracy as described in SW846 8330 and 6010B/7000 Series methodology. Reported results indicate that an acceptable level of analytical accuracy was achieved. Surrogate, LCS/LCSD and MS/MSD spike recoveries, which exceed QA criteria are summarized in Table 2.5-1.

**Table 2.5-1 Summary of Surrogate, LCS/LCSD and MS/MSD Spike Recovery Exceedances**

Sample Delivery Group	Sample Number	Contaminant	Action
10147Q-01	QN0001 MS/MSD	Antimony (LB)	Antimony results for samples QN0001, QN0002, QN0003, QN0004, QN0005, and QN0006 were "UJ" qualified due to MS/MSD spike recoveries exceeding QC criteria.

LB - low bias

## **2.6 Data Representativeness**

Representativeness is a qualitative parameter that expresses the degree to which sample data actually represent the matrix conditions. Sample locations selected for this investigation outline contaminant releases into the environment, that may have occurred and will confirm whether contaminated soil exists at this site. Soil sample data are being used to assess potential impacts to terrestrial biota that might use the site for food and/or habitat purposes.

Groundwater samples provided information on groundwater quality in the residuum aquifer.

Standardized requirements and procedures for sample collection and handling were employed to maximize sample representativeness.

## **2.7 Data Comparability**

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. By employing well-recognized techniques and accepted standardized methods for sampling and analysis, data comparability was achieved during this sampling event.

## **2.8 Data Completeness**

Completeness is calculated for the aggregation of data for each analyte measured during the investigation of Parcel HR-147Q Impact Area, Choccolocco Corridor. The formula for calculating completeness is listed below:

$$\% \text{ Completeness} = ( X_v / X_T ) \times 100$$

where:

$$X_V = \text{number of valid (i.e., non-``R''-flagged) results}$$
$$X_T = \text{number of possible results}$$

Parcel HR-147Q requirement for completeness is 95% for both aqueous and soil samples. The % Completeness for this task is calculated to be 100%

- % Completeness =  $(370 / 370) \times 100 = 100\%.$

## **2.9 Sensitivity**

Sensitivity is defined as the ability of the laboratory's established method detection limits (MDL)/method reporting limits (MRL or RL) to meet project-specific DQOs or site-specific screening levels (SSSL) and or ecological screening values (ESV).

MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. MDLs are determined from an analysis of a sample in a given matrix containing the target analyte of interest. The MRL is a threshold value based upon the sensitivity capability of method and instrument. MRLs are normally set at a minimum of two times the MDL. MRLs are adjusted based on the sample matrix, moisture (solids only), and any necessary sample dilutions. The laboratory cannot reliably quantitate values reported above the MDL but below the MRL. Therefore, these analyte values must be flagged as estimated quantities ("J"-flagged).

To evaluate method sensitivity, a general comparison of the laboratory's MDLs/MRLs and the site investigation screening levels (background values, human health SSSL for residential reuse, and [ESV]) was performed and presented to the FTMC Base Realignment and Closure Team (BCT) (November 1999). The comparison summarized the relationship between the MDL/MRLs and SSSL/ESVs for each parameter typically reported for all of the major analytical methods used at FTMC. The few cases identified where the MDL and/or MRL values exceeded their corresponding human health SSSL and/or ESV were specifically highlighted and explained. It was understood that for these cases, the standard analytical method of analysis was not going to provide MDLs/MRLs which met human health SSSLs or ESVs without significant uncertainty and the possibility of reporting false negatives. It was generally accepted that standard EPA SW846 analytical methods would provide sufficient sensitivity for data reported and used in the site screening process at FTMC.

## **3.0 Data Usability**

Data quality indicators (DQI) provide an internal guide for control and review to verify that data are scientifically sound, defensible, and of known and acceptable quality. Factors such as

precision, accuracy, representativeness, comparability, completeness, and sensitivity were evaluated to determine if the project's DQOs were met. A review of the data revealed that the majority of QA/QC indicators were within acceptable control limits. Any data anomalies encountered during data validation and overall site evaluations have been summarized in the previous sections of this document.

Based on the results of data validation and QA review, IT has concluded that representative samples were collected and analyzed and that the results are indicative of the media analyzed. The data are to be considered representative of site conditions and are usable for their intended purpose.

#### **4.0 Attachments**

Attachment A - Analytical Summary Table

Attachment B - Data Validation Summary Report

**ATTACHMENT A**  
**ANALYTICAL SUMMARY TABLE**

**Ft. McClellan  
Parcel HR-147Q**  
**Impact Area, Choccolocco Corridor Soil Analytical Summary**  
**Project No. 796887**

Sample Location	Sample Name	Sample Number	Date Sampled	Sample Depth	Analytical Suite	Sample Type	Sample Purpose
HR-147Q-GP01	HR-147Q-GP01-SS-QN0001-REG	QN0001	24-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-147Q-GP01-SS-QN0001-MS-MS	QN0001-MS	24-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	MS
	HR-147Q-GP01-SS-QN0001-MSD-MSD	QN0001-MSD	24-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	MSD
	HR-147Q-GP01-DS-QN0002-REG	QN0002	24-Jul-02	1.5 to 2 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-147Q-MW01	HR-147Q-MW01-SS-QN0003-REG	QN0003	25-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-147Q-MW01-DS-QN0004-REG	QN0004	25-Jul-02	1 to 2 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-147Q-MW02	HR-147Q-MW02-SS-QN0005-REG	QN0005	24-Jul-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	SS	REG
	HR-147Q-MW02-DS-QN0006-REG	QN0006	24-Jul-02	1.5 to 2 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DS	REG
HR-147Q-DEP01	HR-147Q-DEP01-DEP-QN0007-REG	QN0007	5-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	REG
	HR-147Q-DEP02-DEP-QN0008-REG	QN0008	5-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	REG
HR-147Q-DEP02	HR-147Q-DEP02-DEP-QN0009-FD	QN0009	5-Sep-02	0 to 1 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7471A	DEP	FD
					TAL Metals by 6010B/7471A		

**Ft. McClellan**  
**Parcel HR-147Q**  
**Impact Area, Choccolocco Corridor Groundwater Analytical Summary**  
**Project No. 796887**

Sample Location	Sample Name	Sample Number	Date Sampled	Sample Depth	Analytical Suite	Sample Type	Sample Purpose
HR-147Q-MW02	HR-147Q-MW02-GW-QN3002-REG	QN3002	23-Aug-02	26 to 46 ft	Nitroaromatics by 8330 TAL Metals by 6010B/7470A	GW	REG

**ATTACHMENT B**  
**DATA VALIDATION SUMMARY REPORT**

***Data Validation Summary Report  
For the Site Investigation Performed at  
Impact Area, Choccolocco Corridor, Parcel 147Q-X  
Fort McClellan, Calhoun County, Alabama***

---

### **1.0 Introduction**

Level III data validation was performed on 100 percent of the environmental samples collected for HR-147Q. The analytical data consisted of delivery groups (SDGs) 10147Q-01, 10147Q-02, 10147Q-03 and 10147Q-04, which were analyzed by EMAX Laboratories. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
Metals by SW846 6010B and 7470A/7471A
Nitroaromatic and Nitramine Explosives by SW846 8330

### **2.0 Procedures**

The sample data were validated following the logic identified in the 1994 *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* and the 1999 *EPA Contract Laboratory Program National Functional Guidelines for Organic Review* for all areas except blanks. *EPA Region III Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses* (April 1993) and *Region III National Functional Guidelines for Organic Data Review* (June 1992) were applied to the areas associated with blank contamination. Specific quality control (QC) criteria as identified in the quality assurance plan (QAP), analytical methods, and laboratory standard operating procedures (SOP) were applied to all sample results. As a result of the use of Update III SW846 test methods for the analytical data and the application of the Contract Laboratory Program (CLP) guidelines during the validation process, there were instances where specific QC requirements for all target compounds were not defined. This primarily occurred in the organic, gas chromatography (GC) and GC/mass spectrometry (MS) calibration areas and is due to the fact that the analytical methods are performance-based and allow the use of average calibration responses in lieu of individual responses, which are defined by CLP protocol. In light of applying CLP guidelines to SW846 methods and evaluating the usability of the data during the validation process, specific QC criteria were determined to address all target compounds and are identified in this report for each parameter, as well as in the validation checklists, which function as worksheets. All completed validation checklists are on file in the Knoxville office. For those analytical methods not addressed by the CLP and Region III guidelines, the validation was based on the method requirements (i.e., SW846, Code of Federal Regulations, SOPs) and technical judgement, following the logic of the CLP validation guidelines.

### **3.0 Summary of Data Validation Findings**

The overall quality of the data was determined to be acceptable with minimal qualifications.

Individual validation reports have been prepared for each parameter, and the overall results of the validation findings are summarized in this report. The validation qualifier data entry verification report (Attachment 1) is also provided. This is a complete listing of all of the analytical results and the validation qualifiers assigned for the site investigation at HR-147Q. It also identifies the "use" column, which indicates which result to use in the event of a reanalysis. A listing of the validation qualifiers and the reason codes, along with their definitions, is also found in Attachment 1. The following section highlights the key findings of the data validation for each analysis.

### **4.0 Analysis-Specific Data Validation Summaries**

#### **4.1 Metals by SW846 6010B/7470A/7471A**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

##### Holding Times

Technical holding time criteria were met for all samples.

##### Initial and Continuing Calibrations

All initial and continuing calibrations associated with the project samples met QC criteria.

##### Blanks

The 5X rule for contaminants found in the associated equipment rinse, calibration, and method blanks was applied to all sample results. All were acceptable with the following exceptions:

SDG Number	Samples Affected	Compound(s)	Blank Contaminant	Validation Qualifier
10147Q-01	QN0004	Selenium	Calibration	B
10147Q-02	QN3002	Aluminum	ER	B

##### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met, with the following exception(s):

SDG Number	Samples Affected	Compound(s)	Validation Qualifier
10147Q-01	QN0001 through QN0006	Antimony	UJ

Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

Interference Check Sample

All Interference Check Sample (ICS) percent recoveries were acceptable. All QC criteria were met.

Inductively Coupled Plasma Serial Dilutions

All QC criteria were met for the serial dilutions associated with the project samples with the following exception(s):

SDG Number	Samples Affected	Compound(s)	Validation Qualifier
10147Q-01	QN0001 through QN0006	Zinc	J

Field Duplicates

Original and field duplicate results were evaluated, and RPD QC criteria (35% Water/ 50% Soil) were met.

Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

**4.2 Nitroaromatic and Nitramine Explosives by SW846 8330**

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times

Technical holding time criteria were met for all samples.

Initial and Continuing Calibration

All initial and continuing calibrations associated with the project samples met QC criteria with the following exception(s):

SDG Number	Samples Affected	Compound(s)	Validation Qualifier
10147Q-02	QN3002	Tetryl	UJ
10147Q-04	QN0008, QN0009	Tetryl	UJ

#### Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

#### Surrogate Recoveries

All surrogate recoveries were within QC criteria.

#### Matrix Spike / Matrix Spike Duplicate

MS/MSD analysis was performed for the project samples, and all QC criteria were met.

#### Laboratory Control Sample

LCS analysis was performed for the project samples, and all QC criteria were met.

#### 2<sup>ND</sup> Column Confirmation

The percent difference QC criteria between columns for analyte concentrations were met.

#### Field Duplicates

Original and field duplicate results were evaluated and no problems were identified.

#### Quantitation

Results quantified between the MDL and the RL, which the lab qualified as "J", were qualified as estimated "J" unless blank contamination was present or the results were rejected. Results rejected in favor of a preferred result (e.g., due to dilution or reanalysis) were qualified as rejected "R".

***Attachment 1:***  
***Data Validation Qualifier Entry Verification Report***

## **Validation Qualifiers**

- U** Not detected. The compound/analyte was analyzed for, but not detected above the associated reporting limit.
- J** The compound/analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample analyzed.
- B** The concentration reported was detected significantly above the levels reported in the associated equipment rinse samples and/or laboratory method and trip blanks. (5X/10X Rule was applied).
- R** The reported sample results are rejected due to the following:
  1. Severe deficiencies in the supporting quality control data.
  2. Anomalies noted in the sampling and/or analysis process which could affect the validity of the reported data.
  3. The presence or absence of the constituent cannot be verified based on the data provided.
  4. To indicate not to use a particular result in the event of a reanalysis.
- UJ** The compound/analyte was analyzed for, but not detected above the established reporting limit. However, review and evaluation of supporting QC data and/or sampling and analysis process have indicated that the "nondetect" may be inaccurate or imprecise. The nondetect result should be estimated.

## Validation Reason Code Definitions

<b>Reason Code</b>	<b>Definition</b>
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient >0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	Laboratory control sample recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantitation
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgement was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantitation
24	Reported result and/or lab qualifier revised to reflect validation findings

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 1 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Analysis Time:	
											1	2	3	4	Lab Sample:	
<b>10147Q-01</b>																
QN0001	SW6010B	SW3050	N 0 1	ALUMINUM	9210	mg/kg		Y Y P								G179-01 11:20
				ANTIMONY	10.8	mg/kg	U	N Y U	UJ	08A					G179-01 11:20	
				ARSENIC	2.77	mg/kg		Y Y P							G179-01 21:36	
				BARIUM	89.3	mg/kg		Y Y P							G179-01 11:20	
				BERYLLIUM	.485	mg/kg	J	Y Y P	J	15					G179-01 11:20	
				CADMIUM	1.08	mg/kg	U	N Y U	U						G179-01 11:20	
				CALCIUM	127	mg/kg		Y Y P							G179-01 11:20	
				CHROMIUM	8.1	mg/kg		Y Y P							G179-01 11:20	
				COBALT	4.7	mg/kg		Y Y P							G179-01 11:20	
				COPPER	4.86	mg/kg		Y Y P							G179-01 11:20	
				IRON	8130	mg/kg		Y Y P							G179-01 11:20	
				LEAD	22.5	mg/kg		Y Y P							G179-01 21:36	
				MAGNESIUM	366	mg/kg		Y Y P							G179-01 11:20	
				MANGANESE	488	mg/kg		Y Y P							G179-01 11:20	
				NICKEL	3.39	mg/kg		Y Y P							G179-01 11:20	
				POTASSIUM	379	mg/kg	J	Y Y P	J	15					G179-01 11:20	
				SELENIUM	1.08	mg/kg	U	N Y U	U						G179-01 21:36	
				SILVER	2.15	mg/kg	U	N Y U	U						G179-01 11:20	
				SODIUM	108	mg/kg	U	N Y U	U						G179-01 11:20	
				THALLIUM	2.15	mg/kg	U	N Y U	U						G179-01 21:36	
				VANADIUM	9.8	mg/kg		Y Y P							G179-01 11:20	
				ZINC	14.5	mg/kg		Y Y P	J	13					G179-01 11:20	
	SW7471A	TOTAL	N 0 1	MERCURY	.0623	mg/kg	J	Y Y P	J	15					G179-01 19:24	
QN0002	SW6010B	SW3050	N 0 1	ALUMINUM	10000	mg/kg		Y Y P							G179-02 11:32	
				ANTIMONY	10.5	mg/kg	U	N Y U	UJ	08A					G179-02 11:32	
				ARSENIC	2.95	mg/kg		Y Y P							G179-02 21:25	
				BARIUM	87.1	mg/kg		Y Y P							G179-02 11:32	
				BERYLLIUM	.387	mg/kg	J	Y Y P	J	15					G179-02 11:32	
				CADMIUM	1.05	mg/kg	U	N Y U	U						G179-02 11:32	
				CALCIUM	183	mg/kg		Y Y P							G179-02 11:32	
				CHROMIUM	7.31	mg/kg		Y Y P							G179-02 11:32	
				COBALT	4.79	mg/kg		Y Y P							G179-02 11:32	
				COPPER	3.39	mg/kg		Y Y P							G179-02 11:32	
				IRON	8660	mg/kg		Y Y P							G179-02 11:32	
				LEAD	8.43	mg/kg		Y Y P							G179-02 21:25	
				MAGNESIUM	383	mg/kg		Y Y P							G179-02 11:32	
				MANGANESE	279	mg/kg		Y Y P							G179-02 11:32	
				NICKEL	3.93	mg/kg		Y Y P							G179-02 11:32	
				POTASSIUM	487	mg/kg	J	Y Y P	J	15					G179-02 11:32	
				SELENIUM	1.05	mg/kg	U	N Y U	U						G179-02 21:25	

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 2 of 10

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:	
	1	2	3										1	2	3	4			
<b>10147Q-01</b>																			
QN0002	SW6010B	SW3050	N 0 1		SILVER	2.11	mg/kg	U	N Y	U	U						G179-02	11:32	
					SODIUM	105	mg/kg	U	N Y	U	U						G179-02	11:32	
					THALLIUM	2.11	mg/kg	U	N Y	U	U						G179-02	21:25	
					VANADIUM	10.9	mg/kg		Y Y	P							G179-02	11:32	
					ZINC	9.84	mg/kg		Y Y	P	J				13		G179-02	11:32	
	SW7471A	TOTAL	N 0 1		MERCURY	.0523	mg/kg	J	Y Y	P	J					15		G179-02	19:33
QN0003	SW6010B	SW3050	N 0 1		ALUMINUM	7690	mg/kg		Y Y	P							G192-01	11:56	
					ANTIMONY	11.3	mg/kg	U	N Y	U	UJ					08A		G192-01	11:56
					ARSENIC	2.46	mg/kg		Y Y	P							G192-01	22:21	
					BARIUM	58.8	mg/kg		Y Y	P							G192-01	11:56	
					BERYLLIUM	1.13	mg/kg	U	N Y	U	U						G192-01	11:56	
					CADMIUM	1.13	mg/kg	U	N Y	U	U						G192-01	11:56	
					CALCIUM	241	mg/kg		Y Y	P							G192-01	11:56	
					CHROMIUM	10.5	mg/kg		Y Y	P							G192-01	11:56	
					COBALT	1.87	mg/kg	J	Y Y	P	J				15		G192-01	11:56	
					COPPER	7.55	mg/kg		Y Y	P							G192-01	11:56	
					IRON	10800	mg/kg		Y Y	P							G192-01	11:56	
					LEAD	28.1	mg/kg		Y Y	P							G192-01	22:21	
					MAGNESIUM	288	mg/kg		Y Y	P							G192-01	11:56	
					MANGANESE	153	mg/kg		Y Y	P							G192-01	11:56	
					NICKEL	2.7	mg/kg		Y Y	P							G192-01	11:56	
					POTASSIUM	432	mg/kg	J	Y Y	P	J				15		G192-01	11:56	
					SELENIUM	1.13	mg/kg	U	N Y	U	U						G192-01	22:21	
					SILVER	2.27	mg/kg	U	N Y	U	U						G192-01	11:56	
					SODIUM	113	mg/kg	U	N Y	U	U						G192-01	11:56	
					THALLIUM	2.27	mg/kg	U	N Y	U	U						G192-01	22:21	
					VANADIUM	10.5	mg/kg		Y Y	P							G192-01	11:56	
					ZINC	14.3	mg/kg		Y Y	P	J				13		G192-01	11:56	
	SW7471A	TOTAL	N 0 1		MERCURY	.0333	mg/kg	J	Y Y	P	J				15		G192-01	19:47	
QN0004	SW6010B	SW3050	N 0 1		ALUMINUM	10700	mg/kg		Y Y	P							G192-02	12:01	
					ANTIMONY	11.5	mg/kg	U	N Y	U	UJ					08A		G192-02	12:01
					ARSENIC	3.31	mg/kg		Y Y	P							G192-02	22:26	
					BARIUM	61.5	mg/kg		Y Y	P							G192-02	12:01	
					BERYLLIUM	1.15	mg/kg	U	N Y	U	U						G192-02	12:01	
					CADMIUM	1.15	mg/kg	U	N Y	U	U						G192-02	12:01	
					CALCIUM	196	mg/kg		Y Y	P							G192-02	12:01	
					CHROMIUM	10.9	mg/kg		Y Y	P							G192-02	12:01	
					COBALT	2.52	mg/kg		Y Y	P							G192-02	12:01	
					COPPER	4.42	mg/kg		Y Y	P							G192-02	12:01	
					IRON	15400	mg/kg		Y Y	P							G192-02	12:01	

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 3 of 10

Sample Number:	Analytical/Extraction Method:			Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
	1	2	3										1	2	3	4		
<b>10147Q-01</b>																		
QN0004	SW6010B	SW3050	N 0 1		LEAD	9.96	mg/kg		Y Y P								G192-02	22:26
					MAGNESIUM	434	mg/kg		Y Y P								G192-02	12:01
					MANGANESE	77.5	mg/kg		Y Y P								G192-02	12:01
					NICKEL	4.16	mg/kg		Y Y P								G192-02	12:01
					POTASSIUM	483	mg/kg	J	Y Y P J			15				G192-02	12:01	
					SELENIUM	.589	mg/kg	J	Y Y F B		06B	15				G192-02	22:26	
					SILVER	2.3	mg/kg	U	N Y U U							G192-02	12:01	
					SODIUM	115	mg/kg	U	N Y U U							G192-02	12:01	
					THALLIUM	2.3	mg/kg	U	N Y U U							G192-02	22:26	
					VANADIUM	14.2	mg/kg		Y Y P							G192-02	12:01	
					ZINC	11.5	mg/kg		Y Y P J		13					G192-02	12:01	
	SW7471A	TOTAL	N 0 1		MERCURY	.0404	mg/kg	J	Y Y P J		15					G192-02	19:49	
QN0005	SW6010B	SW3050	N 0 1		ALUMINUM	8540	mg/kg		Y Y P							G179-03	11:37	
					ANTIMONY	11.4	mg/kg	U	N Y U UJ		08A					G179-03	11:37	
					ARSENIC	2.53	mg/kg		Y Y P							G179-03	21:31	
					BARIUM	80.6	mg/kg		Y Y P							G179-03	11:37	
					BERYLLIUM	.693	mg/kg	J	Y Y P J		15				G179-03	11:37		
					CADMUM	1.14	mg/kg	U	N Y U U						G179-03	11:37		
					CALCIUM	111	mg/kg	J	Y Y P J		15				G179-03	11:37		
					CHROMIUM	6.56	mg/kg		Y Y P						G179-03	11:37		
					COBALT	8.29	mg/kg		Y Y P						G179-03	11:37		
					COPPER	5.69	mg/kg		Y Y P						G179-03	11:37		
					IRON	8530	mg/kg		Y Y P						G179-03	11:37		
					LEAD	25	mg/kg		Y Y P						G179-03	21:31		
					MAGNESIUM	334	mg/kg		Y Y P						G179-03	11:37		
					MANGANESE	1050	mg/kg		Y Y P						G179-03	11:37		
					NICKEL	3.39	mg/kg		Y Y P						G179-03	11:37		
					POTASSIUM	396	mg/kg	J	Y Y P J		15				G179-03	11:37		
					SELENIUM	1.14	mg/kg	U	N Y U U						G179-03	21:31		
					SILVER	2.28	mg/kg	U	N Y U U						G179-03	11:37		
					SODIUM	114	mg/kg	U	N Y U U						G179-03	11:37		
					THALLIUM	2.28	mg/kg	U	N Y U U						G179-03	21:31		
					VANADIUM	10.1	mg/kg		Y Y P						G179-03	11:37		
					ZINC	11.1	mg/kg		Y Y P J		13				G179-03	11:37		
	SW7471A	TOTAL	N 0 1		MERCURY	.0544	mg/kg	J	Y Y P J		15					G179-03	19:42	
QN0006	SW6010B	SW3050	N 0 1		ALUMINUM	10300	mg/kg		Y Y P							G179-04	11:51	
					ANTIMONY	10.9	mg/kg	U	N Y U UJ		08A					G179-04	11:51	
					ARSENIC	2.95	mg/kg		Y Y P							G179-04	22:15	
					BARIUM	59.4	mg/kg		Y Y P							G179-04	11:51	
					BERYLIIUM	1.09	mg/kg	U	N Y U U							G179-04	11:51	

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 4 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-01</b>																
QN0006	SW6010B	SW3050	N 0 1	CADMIUM	1.09	mg/kg	U	N Y U U							G179-04	11:51
				CALCIUM	107	mg/kg	J	Y Y P J							G179-04	11:51
				CHROMIUM	10.9	mg/kg		Y Y P							G179-04	11:51
				COBALT	3.03	mg/kg		Y Y P							G179-04	11:51
				COPPER	5.9	mg/kg		Y Y P							G179-04	11:51
				IRON	13700	mg/kg		Y Y P							G179-04	11:51
				LEAD	6.23	mg/kg		Y Y P							G179-04	22:15
				MAGNESIUM	472	mg/kg		Y Y P							G179-04	11:51
				MANGANESE	96.3	mg/kg		Y Y P							G179-04	11:51
				NICKEL	3.25	mg/kg		Y Y P							G179-04	11:51
				POTASSIUM	708	mg/kg		Y Y P							G179-04	11:51
				SELENIUM	1.09	mg/kg	U	N Y U U							G179-04	22:15
				SILVER	2.19	mg/kg	U	N Y U U							G179-04	11:51
				SODIUM	26.7	mg/kg	J	Y Y P J							G179-04	11:51
				THALLIUM	2.19	mg/kg	U	N Y U U							G179-04	22:15
				VANADIUM	17.2	mg/kg		Y Y P							G179-04	11:51
				ZINC	12.7	mg/kg		Y Y P J							G179-04	11:51
	SW7471A	TOTAL	N 0 1	MERCURY	.0456	mg/kg	J	Y Y P J							G179-04	19:44
QN0001	SW8330	METHOD	N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y U U							G179-01	12:17
				1,3-DNB	.4	mg/kg	U	N Y U U							G179-01	12:17
				2,4,6-TNT	.4	mg/kg	U	N Y U U							G179-01	12:17
				2,4-DNT	.4	mg/kg	U	N Y U U							G179-01	12:17
				2,6-DNT	.4	mg/kg	U	N Y U U							G179-01	12:17
				2-AM-4,6-DNT	.4	mg/kg	U	N Y U U							G179-01	12:17
				2-NITROTOLUENE	.4	mg/kg	U	N Y U U							G179-01	12:17
				3-NITROTOLUENE	.4	mg/kg	U	N Y U U							G179-01	12:17
				4-AM-2,6-DNT	.4	mg/kg	U	N Y U U							G179-01	12:17
				4-NITROTOLUENE	.4	mg/kg	U	N Y U U							G179-01	12:17
				HMX	.4	mg/kg	U	N Y U U							G179-01	12:17
				NITROBENZENE	.4	mg/kg	U	N Y U U							G179-01	12:17
				RDX	.4	mg/kg	U	N Y U U							G179-01	12:17
				TETRYL	.4	mg/kg	U	N Y U U							G179-01	12:17
QN0002	SW8330	METHOD	N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y U U							G179-02	15:39
				1,3-DNB	.4	mg/kg	U	N Y U U							G179-02	15:39
				2,4,6-TNT	.4	mg/kg	U	N Y U U							G179-02	15:39
				2,4-DNT	.4	mg/kg	U	N Y U U							G179-02	15:39
				2,6-DNT	.4	mg/kg	U	N Y U U							G179-02	15:39
				2-AM-4,6-DNT	.4	mg/kg	U	N Y U U							G179-02	15:39
				2-NITROTOLUENE	.4	mg/kg	U	N Y U U							G179-02	15:39
				3-NITROTOLUENE	.4	mg/kg	U	N Y U U							G179-02	15:39

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 5 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-01</b>																
QN0002	SW8330	METHOD N 0 1	4-AM-2,6-DNT	.4	mg/kg	U	N Y	U	U						G179-02	15:39
			4-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G179-02	15:39
			HMX	.4	mg/kg	U	N Y	U	U						G179-02	15:39
			NITROBENZENE	.4	mg/kg	U	N Y	U	U						G179-02	15:39
			RDX	.4	mg/kg	U	N Y	U	U						G179-02	15:39
			TETRYL	.4	mg/kg	U	N Y	U	U						G179-02	15:39
QN0003	SW8330	METHOD N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			1,3-DNB	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			2,4,6-TNT	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			2,4-DNT	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			2,6-DNT	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			2-AM-4,6-DNT	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			2-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			3-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			4-AM-2,6-DNT	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			4-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			HMX	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			NITROBENZENE	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			RDX	.4	mg/kg	U	N Y	U	U						G192-01	17:05
			TETRYL	.4	mg/kg	U	N Y	U	U						G192-01	17:05
QN0004	SW8330	METHOD N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			1,3-DNB	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			2,4,6-TNT	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			2,4-DNT	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			2,6-DNT	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			2-AM-4,6-DNT	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			2-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			3-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			4-AM-2,6-DNT	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			4-NITROTOLUENE	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			HMX	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			NITROBENZENE	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			RDX	.4	mg/kg	U	N Y	U	U						G192-02	17:34
			TETRYL	.4	mg/kg	U	N Y	U	U						G192-02	17:34
QN0005	SW8330	METHOD N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y	U	U						G179-03	16:07
			1,3-DNB	.4	mg/kg	U	N Y	U	U						G179-03	16:07
			2,4,6-TNT	.4	mg/kg	U	N Y	U	U						G179-03	16:07
			2,4-DNT	.4	mg/kg	U	N Y	U	U						G179-03	16:07
			2,6-DNT	.4	mg/kg	U	N Y	U	U						G179-03	16:07
			2-AM-4,6-DNT	.4	mg/kg	U	N Y	U	U						G179-03	16:07

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 6 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-01</b>																
QN0005	SW8330	METHOD N 0 1	2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			HMX	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			RDX	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
			TETRYL	.4	mg/kg	U	N	Y	U	U					G179-03	16:07
QN0006	SW8330	METHOD N 0 1	1,3,5-TNB	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			1,3-DNB	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			2,4,6-TNT	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			2,4-DNT	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			2,6-DNT	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			2-AM-4,6-DNT	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			2-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			3-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			4-AM-2,6-DNT	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			4-NITROTOLUENE	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			HMX	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			NITROBENZENE	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			RDX	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
			TETRYL	.4	mg/kg	U	N	Y	U	U					G179-04	16:36
<b>10147Q-02</b>																
QN3002	SW6010B	SW3010 N 0 1	ALUMINUM	.0583	mg/L	J	Y	Y	F	B		06C	15		02H179-05	12:19
			ANTIMONY	.1	mg/L	U	N	Y	U	U					02H179-05	12:19
			ARSENIC	.01	mg/L	U	N	Y	U	U					02H179-05	19:06
			BARIUM	.014	mg/L		Y	Y	P						02H179-05	12:19
			BERYLLIUM	.01	mg/L	U	N	Y	U	U					02H179-05	12:19
			CADMIUM	.01	mg/L	U	N	Y	U	U					02H179-05	12:19
			CALCIUM	1.24	mg/L		Y	Y	P						02H179-05	12:19
			CHROMIUM	.02	mg/L	U	N	Y	U	U					02H179-05	12:19
			COBALT	.02	mg/L	U	N	Y	U	U					02H179-05	12:19
			COPPER	.02	mg/L	U	N	Y	U	U					02H179-05	12:19
			IRON	.0674	mg/L	J	Y	Y	P	J					02H179-05	12:19
			LEAD	.01	mg/L	U	N	Y	U	U					02H179-05	19:06
			MAGNESIUM	.709	mg/L	J	Y	Y	P	J					02H179-05	12:19
			MANGANESE	.391	mg/L		Y	Y	P						02H179-05	12:19
			NICKEL	.02	mg/L	U	N	Y	U	U					02H179-05	12:19
			POTASSIUM	2.44	mg/L	J	Y	Y	P	J					02H179-05	12:19
			SELENIUM	.01	mg/L	U	N	Y	U	U					02H179-05	19:06

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 7 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-02</b>																
QN3002	SW6010B	SW3010	N 0 1	SILVER	.02	mg/L	U	N Y U	U						02H179-05	12:19
				SODIUM	1.07	mg/L		Y Y P							02H179-05	12:19
				THALLIUM	.01	mg/L	U	N Y U	U						02H179-05	19:06
				VANADIUM	.02	mg/L	U	N Y U	U						02H179-05	12:19
				ZINC	.1	mg/L	U	N Y U	U						02H179-05	12:19
	SW7470A	TOTAL	N 0 1	MERCURY	.0005	mg/L	U	N Y U	U						02H179-05	17:52
QN3002	SW8330	METHOD	N 0 1	1,3,5-TNB	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				1,3-DNB	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				2,4,6-TNT	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				2,4-DNT	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				2,6-DNT	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				2-AM-4,6-DNT	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				2-NITROTOLUENE	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				3-NITROTOLUENE	.0006	mg/L	U	N Y U	U						02H179-05	02:20
				4-AM-2,6-DNT	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				4-NITROTOLUENE	.0006	mg/L	U	N Y U	U						02H179-05	02:20
				HMX	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				NITROBENZENE	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				RDX	.0004	mg/L	U	N Y U	U						02H179-05	02:20
				TETRYL	.0004	mg/L	U	N Y U	UJ				05B		02H179-05	02:20
<b>10147Q-03</b>																
QN0007	SW6010B	SW3050	N 0 1	ALUMINUM	12000	mg/kg		Y Y P							02I033-01	23:05
				ANTIMONY	11.2	mg/kg	U	N Y U	U						02I033-01	23:05
				ARSENIC	2.97	mg/kg		Y Y P							02I033-01	19:44
				BARIUM	78.3	mg/kg		Y Y P							02I033-01	23:05
				BERYLLIUM	.725	mg/kg	J	Y Y P	J						02I033-01	23:05
				CADMIUM	1.12	mg/kg	U	N Y U	U						02I033-01	23:05
				CALCIUM	127	mg/kg		Y Y P							02I033-01	23:05
				CHROMIUM	14	mg/kg		Y Y P							02I033-01	23:05
				COBALT	4.24	mg/kg		Y Y P							02I033-01	23:05
				COPPER	6.17	mg/kg		Y Y P							02I033-01	23:05
				IRON	14500	mg/kg		Y Y P							02I033-01	23:05
				LEAD	12	mg/kg		Y Y P							02I033-01	19:44
				MAGNESIUM	515	mg/kg		Y Y P							02I033-01	23:05
				MANGANESE	546	mg/kg		Y Y P							02I033-01	23:05
				NICKEL	5.74	mg/kg		Y Y P							02I033-01	23:05
				POTASSIUM	564	mg/kg		Y Y P							02I033-01	23:05
				SELENIUM	1.17	mg/kg		Y Y P							02I033-01	19:44
				SILVER	2.24	mg/kg	U	N Y U	U						02I033-01	23:05

# Validation Qualifier Data Entry Verification

Run Date: January 14, 2003

Fort McClellan

Page: 8 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-03</b>																
QN0007	SW6010B	SW3050	N 0 1	SODIUM	112	mg/kg	U	N Y U U			02I033-01	23:05				
				THALLIUM	2.24	mg/kg	U	N Y U U			02I033-01	19:44				
				VANADIUM	17.8	mg/kg		Y Y P			02I033-01	23:05				
				ZINC	17.6	mg/kg		Y Y P			02I033-01	23:05				
	SW7471A	TOTAL	N 0 1	MERCURY	.0782	mg/kg	J	Y Y P J		15	02I033-01	15:09				
QN0007	SW8330	METHOD	N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				1,3-DNB	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				2,4,6-TNT	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				2,4-DNT	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				2,6-DNT	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				2-AM-4,6-DNT	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				2-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				3-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				4-AM-2,6-DNT	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				4-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				HMX	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				NITROBENZENE	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				RDX	.4	mg/kg	U	N Y U U			02I033-01	19:53				
				TETRYL	.4	mg/kg	U	N Y U U			02I033-01	19:53				
<b>10147Q-04</b>																
QN0008	SW6010B	SW3050	N 0 1	ALUMINUM	11500	mg/kg		Y Y P			02I049-01	00:25				
				ANTIMONY	11.5	mg/kg	U	N Y U U			02I049-01	00:25				
				ARSENIC	2.73	mg/kg		Y Y P			02I049-01	11:36				
				BARIUM	81.7	mg/kg		Y Y P			02I049-01	00:25				
				BERYLLIUM	.822	mg/kg	J	Y Y P J		15	02I049-01	00:25				
				CADMUM	1.15	mg/kg	U	N Y U U			02I049-01	00:25				
				CALCIUM	153	mg/kg		Y Y P			02I049-01	00:25				
				CHROMIUM	10.3	mg/kg		Y Y P			02I049-01	00:25				
				COBALT	6.82	mg/kg		Y Y P			02I049-01	00:25				
				COPPER	6.32	mg/kg		Y Y P			02I049-01	00:25				
				IRON	12400	mg/kg		Y Y P			02I049-01	00:25				
				LEAD	15.4	mg/kg		Y Y P			02I049-01	11:36				
				MAGNESIUM	419	mg/kg		Y Y P			02I049-01	00:25				
				MANGANESE	1090	mg/kg		Y Y P			02I049-01	00:25				
				NICKEL	5.85	mg/kg		Y Y P			02I049-01	00:25				
				POTASSIUM	502	mg/kg	J	Y Y P J		15	02I049-01	00:25				
				SELENIUM	.57	mg/kg	J	Y Y P J		15	02I049-01	11:36				
				SILVER	2.3	mg/kg	U	N Y U U			02I049-01	00:25				
				SODIUM	26.3	mg/kg	J	Y Y P J		15	02I049-01	00:25				

# Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 14, 2003

Page: 9 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-04</b>																
QN0008	SW6010B	SW3050	N 0 1	THALLIUM	2.3	mg/kg	U	N Y U U			02I049-01	11:36				
				VANADIUM	16.2	mg/kg		Y Y P			02I049-01	00:25				
				ZINC	15.1	mg/kg		Y Y P			02I049-01	00:25				
	SW7471A	TOTAL	N 0 1	MERCURY	.0843	mg/kg	J	Y Y P J		15	02I049-01	16:22				
QN0009	SW6010B	SW3050	N 0 1	ALUMINUM	10700	mg/kg		Y Y			02I049-02	00:30				
				ANTIMONY	11.6	mg/kg	U	N Y U			02I049-02	00:30				
				ARSENIC	2.8	mg/kg		Y Y			02I049-02	11:51				
				BARIUM	76	mg/kg		Y Y			02I049-02	00:30				
				BERYLLIUM	.765	mg/kg	J	Y Y J		15	02I049-02	00:30				
				CADMIUM	1.16	mg/kg	U	N Y U			02I049-02	00:30				
				CALCIUM	136	mg/kg		Y Y			02I049-02	00:30				
				CHROMIUM	9.99	mg/kg		Y Y			02I049-02	00:30				
				COBALT	8.13	mg/kg		Y Y			02I049-02	00:30				
				COPPER	6.25	mg/kg		Y Y			02I049-02	00:30				
				IRON	12200	mg/kg		Y Y			02I049-02	00:30				
				LEAD	15.4	mg/kg		Y Y			02I049-02	11:51				
				MAGNESIUM	382	mg/kg		Y Y			02I049-02	00:30				
				MANGANESE	1040	mg/kg		Y Y			02I049-02	00:30				
				NICKEL	5.23	mg/kg		Y Y			02I049-02	00:30				
				POTASSIUM	508	mg/kg	J	Y Y J		15	02I049-02	00:30				
				SELENIUM	1.16	mg/kg	U	N Y U			02I049-02	11:51				
				SILVER	2.31	mg/kg	U	N Y U			02I049-02	00:30				
				SODIUM	22.2	mg/kg	J	Y Y J		15	02I049-02	00:30				
				THALLIUM	2.31	mg/kg	U	N Y U			02I049-02	11:51				
				VANADIUM	15.4	mg/kg		Y Y			02I049-02	00:30				
				ZINC	14	mg/kg		Y Y			02I049-02	00:30				
	SW7471A	TOTAL	N 0 1	MERCURY	.0793	mg/kg	J	Y Y J		15	02I049-02	16:25				
QN0008	SW8330	METHOD	N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				1,3-DNB	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				2,4,6-TNT	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				2,4-DNT	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				2,6-DNT	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				2-AM-4,6-DNT	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				2-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				3-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				4-AM-2,6-DNT	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				4-NITROTOLUENE	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				HMX	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				NITROBENZENE	.4	mg/kg	U	N Y U U			02I049-01	00:12				
				RDX	.4	mg/kg	U	N Y U U			02I049-01	00:12				

# Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: January 14, 2003

Page: 10 of 10

Sample Number:	Analytical/Extraction Method:	Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use	BCF	Val Qlfr	Val Code:	Reason Codes				Lab Sample:	Analysis Time:
											1	2	3	4		
<b>10147Q-04</b>																
QN0008	SW8330	METHOD N 0 1	TETRYL	.4	mg/kg	U	N Y	U	UJ		05B				02I049-01	00:12
QN0009	SW8330	METHOD N 0 1	1,3,5-TNB	.4	mg/kg	U	N Y		U						02I049-02	00:41
			1,3-DNB	.4	mg/kg	U	N Y		U						02I049-02	00:41
			2,4,6-TNT	.4	mg/kg	U	N Y		U						02I049-02	00:41
			2,4-DNT	.4	mg/kg	U	N Y		U						02I049-02	00:41
			2,6-DNT	.4	mg/kg	U	N Y		U						02I049-02	00:41
			2-AM-4,6-DNT	.4	mg/kg	U	N Y		U						02I049-02	00:41
			2-NITROTOLUENE	.4	mg/kg	U	N Y		U						02I049-02	00:41
			3-NITROTOLUENE	.4	mg/kg	U	N Y		U						02I049-02	00:41
			4-AM-2,6-DNT	.4	mg/kg	U	N Y		U						02I049-02	00:41
			4-NITROTOLUENE	.4	mg/kg	U	N Y		U						02I049-02	00:41
			HMX	.4	mg/kg	U	N Y		U						02I049-02	00:41
			NITROBENZENE	.4	mg/kg	U	N Y		U						02I049-02	00:41
			RDX	.4	mg/kg	U	N Y		U						02I049-02	00:41
			TETRYL	.4	mg/kg	U	N Y		UJ		05B				02I049-02	00:41